

# SEQUENCE LISTING

<110> Mendrick, Donna  
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<120> Molecular Toxicology Modeling

<130> 44921-5038-US

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<150> US 60/222,040

<151> 2000-07-31

<150> US 60/222,880

<151> 2000-11-02

<150> US 60/290,029

<151> 2001-05-11

<150> US 60/290,645

<151> 2001-05-15

<150> US 60/292,336

<151> 2001-05-22

<150> US 60/295,798

<151> 2001-06-06

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<150> US 60/298,884

<151> 2001-06-19

<150> US 60/303,459

<151> 2001-07-09

<160> 1740

<170> PatentIn Ver. 2.1

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<213> Rattus norvegicus

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ctgggtttcat cgggttggtc ggagagcgca accactcctt cttcagcagc tgcttcagct 300  
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<211> 290

<212> DNA

<213> Rattus norvegicus

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<220>

<221> unsure

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ctgattatgc tctgactaga aattatttgg aacttatggt ggagcttcct tggacaacaaa 180  
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 <213> Rattus norvegicus

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 agaacagact ggtgagaagt aaacaagaaa gttctccttt aataaaactt tgccagagct 240  
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 <213> Rattus norvegicus

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 ggtgagggcc agctaataaa gcctccctc ccccccttaa ctttgttcat agggcaaatg 180  
 gctgacggaa ggagaagggt ggtagggtga gagggtagtc gtcaagactt ggggagaggt 240  
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 tatccgtgag gtctccaaag ttccccctggc aagttacaca ggcacaagat tgttttcttt 180  
 gagtgccggg atgcggtgaa caaacatata aagtgagaat tcttgcttca gtgaatatta 240  
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 <212> DNA  
 <213> Rattus norvegicus

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<400> 8

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ccgcctctca gtgcctgtca aggacaaaag ttcatggtaa tgaactgtcc agcacagccc 540
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<210> 9

<211> 683

<212> DNA

<213> Rattus norvegicus

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<400> 9

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gatcacttga gaggtgggtc cagagctggg gaaagaagag ccgcaggcag agtcagaagc 180
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<210> 10

<211> 731

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<213> Rattus norvegicus

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<220>

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atcaacaccc attttttgaa ttttattaag aacctgtact aaatgaagtt tttaatcaga 180
aaacattccc ttttacctta aaagtgtctt ttaaatgaag gcaccaacaa gaactacttt 240
cagatggtag agaatttctt atttcttgaa gactctgtgg ttgaccactt cttcattagt 300
tacctgcagc aagacacctt ccattttact accaacacca ctgaaggaag caagaaaagc 360
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<223> Genbank Accession No. AA799545

<220>  
<221> unsure  
<222> (1)..(633)  
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tcctttgcaa acaaagatgt ccacagtgtt cctggaactc tggctcagga aaggggagac 180  
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cgcagaagca gaactgcagt ctccactgct gttttgtatg tttgtagctt cacagccaat 360  
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<212> DNA  
<213> Rattus norvegicus

<220>  
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caccagcaaa tattcccctg agagacatcc atttaggagc attgccttca gaggccttaa 360  
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<220>  
<221> unsure  
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<212> DNA  
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<210> 17  
<211> 687  
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<213> Rattus norvegicus

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<220>  
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<210> 22

<212> DNA

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<400> 24

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<211> 582

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA799804

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<211> 500

<212> DNA

<213> Rattus norvegicus

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<223> Genbank Accession No. AA799812



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gggtgaacga acacacttgt tcttctgtat agacatgaat tctttacata aactcaacat 240  
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acacagacag acacacacac agagacagac agacaggcag gcagacacac acacacacac 360  
gcacgcacca ctcttgagaa gcagtgtttc tcatggacac ttactagaag gtcattttctc 420  
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<210> 27

<211> 612

<212> DNA

<213> Rattus norvegicus

<220>

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<212> DNA

<213> Rattus norvegicus

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<213> Rattus norvegicus

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cctgggtacc accaccaaac cccgttcctt cctctgacat cccacagcct gtaacagatg 180
gtagagaatt tgcgtgaaag ctgggtccct ggacctctgt atctgtgata tgattacatg 240
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agcacataag cgcccgcata aaccaggaac tgtccgggtc cctgggcagc ataggatgct 360
aaccgcagca gactccttaa caaggccttg aagcttgtgc agcggatata atacgacact 420
gagtacatct catacatggt ggctttgaca ttgagacagc cgaggaagtc cttgggattc 480
agcctgtata ggtcgaagg gactctggct attcctgact tctttgtttg tgtgcagaca 540
tacttattgc ccggtgtcca tttctgtccc tttccaaga tcatgaagtg tgtgttgtct 600
cttaggtct gaa 613
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<210> 30

<211> 560

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA800318

<400> 30

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gccagttcct aaggctggaa gtggctaggg caggcagtg cgaggaaata gctggatgag 180
ctgaagcttg ggtggcagtg cttactcaag cctgactcct gcctgtctca ggccctgggg 240
tcatatacac ggcccatgaa gactgggaac ttgtgtcgtt ggtcccagag caggaagagg 300
aaaggctgct gcacctcaaa gatgagtaag tttcgggcca cggagatggt ggaggctgct 360
gctgcttcca cacctgtctc tgtcagttcc aacaccgtct cgtgtttcat ggaagacacc 420
tgaagatctg ggtcctcagt cagcccacac aggttgagat cgtaagtga gtcaggagat 480
tccagtttct ccatgattga cagcatgtct tggatgctct ttactttaat gcgaggcatc 540
atcacgtaag tgggctgaaa 560
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<210> 31

<211> 560

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA800339

<400> 31

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gcaatgttga ggtctactgt tacaaaatcc aagttaatat ttcccttacc tagatgctca 120
agagagcagt ctagctttgt tattttccac cccctcccta gaccagctc agaagttgct 180
cgggactact agctaccatc tgcttaacct tctcaggcaa gagcctaggc agcttctagt 240
tatacgaatt caggctcaga gcctcaccgg ttaaaaacaa ggctggagat gccctagggc 300
agaaagtttg gtaacagggt ctatgtcctt gtgcggagcc ctccctgttg ggattggagg 360
gatgggacac agtgtgcatg aggacgggag aacaaagagc ctgggacaat ttatgttata 420
ctgaactgtc cattcggttc attcattccg ctaaaccgtt cataaaatta agagtattct 480
gaatggccta tgtctttctt ctctccccag gactcctaga agcctgcact ttccacaaaa 540
gttaaaatcc aagaggtggg 560
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<210> 32

<211> 678

<212> DNA  
<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA800429

<400> 32

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tattgaacaa gcttctgctt tatttattgc aaatgttact ggatgaactt ctaggtaaag 180
tggtcagggt tggagctgta tgaaatctgt aatcctagat ctgtcttttag gaaaccaata 240
ctgttgacaga ctctcctgtg gtataactaag cctcaaaatg acctcttctt aaaaggacct 300
accaaagttg tacttggtgc tggagagaag gttcagtagt tactaactag cacctgttct 360
atagacccca tattccattc ccaccacca tatgggtcaa agccaacagg aattcaaagt 420
tcatagtacc ttacaccccc tgctggcctc tcctggcact acagagacac atgcaaatga 480
agccctgata ctcatcaaat aaaattaagg attaaagaca aattttgggt tcatgaaagt 540
aattctactt ccattcaaca ttttacaaag aataatggga ttcactcatt ttcataatta 600
gcctttggag gcagatataa gaatttaatt tatgttttga tagtacagaa taaagactct 660
aaatatgttc tcacacaa 678
```

<210> 33

<211> 572

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA800551

<400> 33

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aacactttgt aatcagtata ttagacagtc atacatttca gtaactgctt aaattctgat 60
aaccagattt aagcatgtaa gcatgtgact tcaaaacata caacaaatct attcataatt 120
tgctatacta ccaacattaa attgcagtta cgttggagcc taagttgaat agaaagcctg 180
taacagaccc aaggaacgcc tttcctggac tatacatgca aatcacctct caacatacag 240
atctcacttt aattttgtaag ttacttgggc tttggaagtc actacaccca agcaagggcc 300
tttggaagg ggaaaaagg gatgttttca gtttatatat atatatttat atttaaaatg 360
gcacagcaga agggaatgca atctagaaga gcaagccctt aagcagtagc ttatgataaa 420
ctttaggaat gtatcatttc tatcactaat atcacaggcg aaatgtatta tgccaccttc 480
tagtaatggc tgaggcaata caatgcaaag gcatcacaat tagttcactt caacaactag 540
acagaccaac atgtaactaa ttgttttctt tt 572
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<210> 34

<211> 551

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA800576

<400> 34

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gctcacatcc atgccggtta acttaaagct agagggtataa agtgacatct acagtgtatt 120
tgcaaggcca gagctacagt ggcaagctgc atgtggctgc gcgcaaagc tcagtgggtc 180
tcagcgaggc tcccgggcgc tcgctgctct aagcatgcac ttggaaaccc agctcatcag 240
tcccttttaa acagagacgg gatgatgtag acccaccacc aagactcgcg gaaggggcta 300
cttaccacaa cctgcattaa tttataaagt gagatcctaa gtcaaacatt cacagaaagg 360
catattcact aggagctggc caggcagact gtctttctta gtgacctgtc tgctggctgt 420
tattatagtt agcattttaa aaaagggggg gactgaattt taaaatagag cacttggcgg 480
ggagagttaa tgtgtgcatg tgcggaagcc gctccctgca ctctgctgta ttcaacagtc 540
```

aacactgcac a

551

<210> 35

<211> 610

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA800739

<400> 35

tattagagga aatatctaataat ggctgtctta tacaaatatc agtttcccag gggcagaaca 60  
agatttatct gtgttcgaag ttccaggata gatagcaaga ggcactgtgc tcaaaagtat 120  
ttgtagtatg aaagggccat cataaatata aaactgttat ctccggtttc tactcacagt 180  
tgacttaaca attctccgtc ccgatgaaag gaaaacagtg tatgaagaat cccaagtag 240  
attccaaccg aagccacctg gtatttttgg agctgggtgct caatgcctca gcttatgcag 300  
cacactcagg gtatggcaga ggcagttaag aaaatgagtc aaatttagca tctcagtact 360  
acagtgcgct ttgcagacct tcggactatt tttcctagcc aaagtacagg ggaattcaga 420  
caagagccac cgctgcagac cactatccca ttagtgcaaa ctctggttca gatactgaag 480  
aaacatgttg gccaatgtag gcaggttctc attgttggga tgcattttag ttaggaaat 540  
aaactggcga cggaggcgac tcaattctgc caaggtcaag ggacgggtaa atcggaggtg 600  
ctccgtgggtg 610

<210> 36

<211> 359

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA800797

<400> 36

acaccagaa cataattatc atatattaat agcaatataa cagaataaag gcttgtgggg 60  
acagccagtc ttccagacat ggatggaagg ttggcggttca ttgttggtga gggttggtga 120  
aggctgtgcc ttccagcttct ggttaaaactg cagttagtaa gccagggtt agttgctgag 180  
aatcatgttg caagcagaac catcgacat gctgaaactg gccacgagg ttgtgtggag 240  
gctctcctt aatacgaatc gtggaaatga gccgggtggc ttcggaaga acgctgccag 300  
taacgaaggc tccaggaagg ctccggtctc aggagctctg ccatgctgac cctcgtgcc 359

<210> 37

<211> 495

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA800962

<400> 37

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ttggctggaa gctgctggca gggttgagca gctggagccc tggcagggtta aaactgaggt 180  
atggcagcgt taataatact cttggagcgt taatactctg gaggggacag gcacttgggg 240  
ccctaagggt cgaaggcact tggagtcagg gagaggacac ggcttgcaat gggactgggc 300  
aggaccaggc ccgggggttg gcaggcactt tggggagtgc tgggggttggc agcttgggcc 360  
ctgagcagcc cagaaggctt tggtagtggc aggcacagtc tctgggctgg gtctgcatta 420  
aatacagggg tttcctcagt gctcgtctcg aagctctgaa ggcaagaact tgtactgctg 480  
ctgccggatc tgggc 495

<210> 38  
 <211> 560  
 <212> DNA  
 <213> Rattus norvegicus

<220>  
 <223> Genbank Accession No. AA801076

<400> 38  
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 aactaacaac tgtcctacta ggtgagagag aaagattatg tgagaaaatc agaataccat 180  
 gtgatttgta gatttgaggac gttcagaaac attgggaact aaatttagaa tgggccaag 240  
 cctggaagat ggggtctaca ccagaagaca ttccaggagc tagccatttt aggagatgtc 300  
 cctccaaagt gtgcgatga tggccttgca cttgggaatc aggttctgct cacttggaca 360  
 tccctgcgtc atggactctt gctgcccccg ttccatgtgc tcgcaattcc agctactgga 420  
 agccaccagg aatgctttct aattatcatt tgcaactaga actgtaatca gaaagaaaat 480  
 ttgtattttt gtataactcg attgtgtgcc attttatata acagggtcctg ttttacaaat 540  
 aaattttgtt ttactaactt 560

<210> 39  
 <211> 437  
 <212> DNA  
 <213> Rattus norvegicus

<220>  
 <223> Genbank Accession No. AA801255

<400> 39  
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 tagtggaataa tgttcttttg tctcaaactt ggatattgct acctgaagta ataaacaccc 180  
 caagccagaa acttggtcag tgctggcaac attttttgag tgtttgtgat ccaggaatcc 240  
 tagagtgacc gcctgccatt aagatttttc caaggacaga gtcaccccaa actcttgttt 300  
 aattaccaga taaccagatt ctttatcaga attatggaat aaaatatgta ctgtaacaaa 360  
 taatttttag aagaaaactg ttttaagataa tgctcttaac attttttttt gcaaacattg 420  
 aagattacat tgaagaa 437

<210> 40  
 <211> 485  
 <212> DNA  
 <213> Rattus norvegicus

<220>  
 <223> Genbank Accession No. AA801346

<400> 40  
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 ctgggttttg cctgtagcta ccacagccag ttcttggaact gtacgtgtct gccagacgga 180  
 aggagaagag aaagtggtag gatgccttcc tgacctcacc cggccctcct cgcgggacgc 240  
 aggcactcca ggtggactcg agggccatcg ctggctccac ctctaagggt aaactggacg 300  
 tcagacgtcg gggcctgggt gccagaggga cccagaaaac tgagggtccc gtctcagctg 360  
 ttaaacaggc tgtcctggag gccctgcctg gatctggggg tgctggagca gcatttcccc 420  
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 actca 485

<210> 41

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<211> 416
<212> DNA
<213> Rattus norvegicus
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<220>  
<223> Genbank Accession No. AA817685

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<210> 42
<211> 454
<212> DNA
<213> Rattus norvegicus
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<220>
<221> unsure
<222> (1)..(454)
<223> n = a or c or g or t
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<210> 43
<211> 429
<212> DNA
<213> Rattus norvegicus
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<400> 43
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aatgaacaaa cattaaccct aaaattgtag ctgagttctc attgctatgg aagagtcaac 120
actgagttta caggaatgct tataaatttc attcaaatac agaaaatatt tcagcatcag 180
gataaatgac tatgcatatt caggtgattt attaatctag tacaacttcc attcttccac 240
atctgtagct ttgggtgtact tgctttcgac cagagctggt caagcctgct ttggaaaaaat 300
cactgaaaaa tcttcaactg gattatgccg atctttacat tatgcattac ccagtgccaa 360
tgaaggtagg tgattgcaat tgtcaaatgt acacatcttt tcagaaggac aggaatatca 420
tctttatga                                     429
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<211> 522  
 <212> DNA  
 <213> Rattus norvegicus

<220>  
 <223> Genbank Accession No. AA817726

<400> 44  
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 gagttcactc aatacattaa caataagcaa atcacacaga tactgagggg aaggatgtcc 120  
 ccttgactac atacacatat atgtatctat tcttaagaac agcaatcaag aggttaacaa 180  
 taatggaagg aagaagtaga caggtaagtc actgccaaat aacacaagtt cataatgatc 240  
 ggttactcaa gtaacctggc aaatgcctgc tcagaattta catttacttt cctcattgac 300  
 tttcttgctt ttgtgtttca gtgaatttgg actaggtcca aaaactagac cttcaaaaact 360  
 ccattctctc cattcagtgc tgaagatggg catgaagggt gagtatactt gagaacatgc 420  
 atggtaacga atgtcaaaga gttttctcac agtgaccttt cccctgtctg cttcttccca 480  
 cacctttaga aatattttca tgcttcctct ggagacatta ga 522

<210> 45  
 <211> 557  
 <212> DNA  
 <213> Rattus norvegicus

<220>  
 <223> Genbank Accession No. AA817761

<400> 45  
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 ttacaacaga gattctccag cttccagccc agctctgtcc cctgacctgc tgtgggttcc 180  
 ttgcacactc acgcctttca taaagaagga ggtacacaca gtagaacggg aggggtcggg 240  
 agaatgagca catgggggtat tctgtgtgca tgggggacag aaagggtctgt ctgctccact 300  
 gagtgtcagc cactgcgatt ccaaacagaa aagaatgcaa gttgtcaaca agacacactg 360  
 tcctcaggag gagagatgat ctaagtcaat cgaaaaagaa cgatgggttta gtaccccaca 420  
 gttccccagc tgagggtgcga aagccataga taggattgta aacatgcggt tggaaacaggt 480  
 tccatagaaa actcagtttc tcacggaaag cttgcacagg tgctttattg gctgtgtgtc 540  
 tctgaagagc aagggtta 557

<210> 46  
 <211> 605  
 <212> DNA  
 <213> Rattus norvegicus

<220>  
 <223> Genbank Accession No. AA817829

<400> 46  
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 aaccgtacaa agaacataat catggaagca cggttacagg ggaagcagaa gagtctgagt 180  
 agtgatttca ttctcactga ggagcggcac cctgaagaat cgagtccatt agtaacactc 240  
 accgcactga gagcagaggg gcgttagcga ttgtacttga ttattttttac tgagccattt 300  
 catcttcctc acagtgagaa gaaatacaat ataaccttaa taagaaaacg acctcattac 360  
 aatctcggta aagggtctacg gcttatggag tggagcagag ttcagggtgtg cttgcgggct 420  
 ccggcctcac cgtaccatcc cacctgatgt gctggacaga ggccgctctc tcatgcgccc 480  
 gcactaactc catgggagct gcaatagaat gaaccatttc tgtggcggtc ccagggtctca 540  
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 tggtta 605

<210> 47  
 <211> 612  
 <212> DNA  
 <213> Rattus norvegicus

<220>  
 <223> Genbank Accession No. AA817841

<220>  
 <221> unsure  
 <222> (1)..(612)  
 <223> n = a or c or g or t

<400> 47  
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 agcacatgac caaaacttcc tggatcacga accaacagga gatgtgaata gcctgtagat 180  
 atcaattcca acagctttac aaaatgtcat tcatctaagg cattttctgtg gttctcacgg 240  
 ccacatgttc acatacataa aggcctctat tcatggacag agagatacgt tctttaggag 300  
 cagtgggtgc aggaggcgaa agcagttaca cgcttagtta ctgagtaatt ttaaagagga 360  
 aatttggcgt tccaagaaac agttttgtac atccaaaaaa aaaaatcaat gataattttc 420  
 cacttggatt attttgtgat gcagactaca agaaaatcca tgctggatta tttgctttcc 480  
 aaaggccact ttcaaagtac agatttcgag tccagaacaa ataccacag cgagaacaaa 540  
 cagaacggct aagactctaa catttgccct catgtggctt tcctcctcnc tcgattctct 600  
 gacattttct ga 612

<210> 48  
 <211> 622  
 <212> DNA  
 <213> Rattus norvegicus

<220>  
 <223> Genbank Accession No. AA817849

<400> 48  
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 tctgcttaaa aaagtagaga cacaatgatt tacatcttaa aatagtttcc ttgctccagt 120  
 tctacttaaa gatagcacag gagcagatcc gctctgcttg tcttgctggt ttatagggtg 180  
 caactcatcc tcctgggttc tggctgctgg gtacagggct gagagtgggg ttaggtttgg 240  
 aaaaaacatg gctgtgggta gcacgagttg gcttttgttg tgtttccttg cataggtgtt 300  
 aggagccgag agcagctagg gtgaggatcc agaacacagg cttgacagtc cccatcctgt 360  
 ttgcctgcca ctggcctggg gcatcttgct tatctttgag gaagtcctag gaaatagttt 420  
 ctgtaatgca tcctgatttg aaatcagtga aagtgttttg gcagtgggaa aataacaatc 480  
 ccacttcaga gatctcaca acggaaaatt tgccctcgcaa aaactccttt aaacgctaac 540  
 tgagacaaat gattccgtgg gcaaggagac tgtcagccag agctctgtaa aatgcattct 600  
 gctagttaac agttctttcc tt 622

<210> 49  
 <211> 493  
 <212> DNA  
 <213> Rattus norvegicus

<220>  
 <223> Genbank Accession No. AA817921

<400> 49  
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ccatctatac cagtgtcaaa tgagggaggg aggggaaggg agggcagagc agggagacga 120
ggggaggagg gaggagtccc ctctactggg aataaagctc cagggtcatc ccgtcgtgga 180
tctcatagtc tcccagagac acgtgggtctt taaaaatcgt gtaccacttt ttaagaacga 240
tcttattcca gcgggtgcca gtttgagccg ctatcagttt cttcagggtcg ccgatgggtgt 300
catcgggtgtt gcacttaacg cggactttct ttcctagacg gtcgttgcaa accacctcaa 360
tcattgtggc tggagccggc tttgcctccc gcaacccta ggctcccaag tcttggcagc 420
ttcccgcat ctccggcctc tccgtttagc cttctcacct ccaatgtcct cgaacctagc 480
gaccctcgtg ccg 493
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<210> 50

<211> 386

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA817925

<400> 50

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ggcagcggcag tctcagaac gggcactgag acagcacctc atgcgtgtca ggtctttaat 180
tttttccctg ccagagcttt ttctttcttt gcttcgttgt tactgtgttt tttctgttta 240
acaattcaat tggcagaaaa atggctatcg ctgggtggaca ttagggttgc agtgaaaaaa 300
aaatccccct cccccaattc ttgcttgcca ccgtgggaga cgaggtgagg gttcctagag 360
gtttcccaac ccacctcaga gcttcc 386
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<210> 51

<211> 565

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA818039

<400> 51

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agctccgagt tattaacaa accttgctct tgtacaactg aggtctgatg gttttaagtt 180
gatgcctggg tgcagggcca gacacaacct tagggatgtt tcttacctgt acatacatat 240
atacaaatat attccaaaa tgtgtgtata catgggcatg tattaattta cgtggggaat 300
ttataaaatt atatatacat acacatacat gcatatctat atacagctcc ccaccctcac 360
cagtgaagctg ctgaagtagc tcgttagctc cgtgctcgat tattgctgtc tgggtataact 420
acatgattta gtgccaaagc cagacacatt ctctgggtgt ggatgggtcac tgtcatatag 480
acacgtgtat ccttgatgac cgtgtatgaa gagcattgct cccatgtgtc aggcattgcc 540
taccacagta aactgccttt accac 565
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<210> 52

<211> 525

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA818089

<400> 52

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<213> Rattus norvegicus

<220>

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<212> DNA

<213> Rattus norvegicus

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<223> Genbank Accession No. AA818107

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 aaggagctgg gaatgacggg aggccttgta caccagacct ataatcccag atacctggaa 420  
 gctgagacaa gagagtgcga agttcaaggc cagcttggac acgtgtcgag actctctctc 480  
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<211> 567

<212> DNA

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aaggaagccc	tcagagatgt	gtcagtgggtg	ctgagggtcca	ccgaggccca	caccaacagg	420
tgtggcattc	catgctatca	cttctaca	gaaccatgaa	gaatgcttgt	agaccctatg	480
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<213> Rattus norvegicus
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atattaatga	atggaggaca	tgtatttcct	agtaaattatt	ttaaacaatga	agtatacgct	300
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 <212> DNA  
 <213> Rattus norvegicus

<220>  
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 atctaccag ctggggctct cggtagtcct aatgtggtgc tgaagttcca gaggattcct 180  
 gggagagtcg ctgggtcttca gttcagggtg gaaggctgaa gacactgggt gctcatgaca 240  
 gcaaagggca gcagcagtga cagcggcagg gacaacgtaa gtgagcagag aagatgagct 300  
 caccaacaag acacgaaagc aaacaggcag caaacaaaaa caacaacaga agactagtgt 360  
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 tccacaggtc aggagctca aagtctctaa gtgcagacc tggatcctga cgcctctggc 480  
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 <213> Rattus norvegicus

<220>  
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 ccaggatgta tgatcagacc atatgttctt agccttgcca aacaacatgc tgctcttaaa 240  
 atgaaacaaa tggatgtcac tgtgaagtaa ctgagatctg tctaggtttt ggtgtttatt 300  
 cagaacactt tctttgacta cattagggaaa taagtgtttt tgctgagcca actctaattt 360  
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 ctacactata gaaattcccc taaaaggctt aaaatacctt gata 464

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 <213> Rattus norvegicus

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 ggagaagacc atgttgagtc acaaccctcc ccagaacagt tgactgggac aggggtcctga 240  
 gcaggttaag gatctccaga cacctgacag gctcagtgga cgctcaccgg acacctcatg 300  
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 gggcttctcg aaggtctcgc agcactcgga gcagctgggc cagtgaagtcc tcaggagctc 420  
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<212> DNA  
<213> Rattus norvegicus

<220>  
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 tgactattaa ggaaaacatt aaatatttaa taacagaaat aaaatgtgta aacactaatc 180  
 taactgggga ttttgctatt gcaactgtcc aatgaagtgg tttcaacagt acgaaaaggg 240  
 tgaagacagg ggtgcttcca gtccacttag gagtcatggg tctcagttca ggggtccttt 300  
 aataaaatct ggtccaggac aagaggaggg ccactccact ccactggctc tcattgggatg 360  
 tattccactc ggtgaatgct cacgttcaag cttgggtact gagcaaatac ttttaatccg 420  
 tctccctta 429

<210> 63  
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<212> DNA  
<213> Rattus norvegicus

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 aagaccctgc cacacctcaa atccactggc tatgcatctc ctcaacgatt gcaggaattt 240  
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 ttgaccacc cagagcccat cttacacggc ctgggagtga cttcttggca gattctgttg 480  
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<212> DNA  
<213> Rattus norvegicus

<220>  
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 gaaaaatgaa aaacacattt taaaagggtgc ttcatttttc attccattag taaagccttg 180  
 acaggctctt gaaacgtcag tcaagtccag gaagaactag aaatgcctga gacatttcca 240  
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 ccagcaagcc cattgtgcag acggagagac tgaggtcaga actccttagt ctcctcatgg 360  
 gagactggag catgtcagtg aagttattgc tttaaagttt tagcaagggt tcgcaagcat 420  
 tcctctgctc tccactgtgt ttctctggtc catggagaag tgaggacggt actgggggtc 480  
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 <211> 551  
 <212> DNA  
 <213> *Rattus norvegicus*

<220>  
 <223> Genbank Accession No. AA818355

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 attttaagat catccgaaat taaagacaca ttgtaagcca gtccttggt ctcctgggtcc 180  
 gtagcaaata gcaaaactatc aaaaacaaat acagttttaa aatgtttaag gtaacaattg 240  
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 agaaaggagg gattgggaca tcatgcatgt taaatgtttt aaggaagtgt gcatctactg 360  
 ggctggggag acggcttagt cagcacaagt aggtataagg gcctgaattt ggcacagtca 420  
 aaaacgggtg gttcgatgga ctgtggttat aaccccagag ctggctcact agctatcaag 480  
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 <212> DNA  
 <213> *Rattus norvegicus*

<220>  
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 gggcaatgcc ttgcgaaga caaatgctgt ttcctgtgga gaagggcatg aaagcttcac 180  
 tctttttcag tgccccattg gcatccagga agtggttcagg attgaagctg tctgggtggt 240  
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<210> 67  
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 <212> DNA  
 <213> *Rattus norvegicus*

<220>  
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 ttaagactgg ttgagaaata gaacaaaaac atagtaaaat gtttaaaaaa ttaaagaaca 180  
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 tagtagacac tgaacaaaag ctgt 564

<210> 68  
 <211> 519



Figure 1 consists of 12 histograms arranged vertically, each representing the distribution of the number of non-zero elements in the vector  $x$  for a specific value of  $n$ . The x-axis for all histograms is labeled 'x' and ranges from 0 to 120. The y-axis is labeled 'count' and ranges from 0 to 100. The histograms are for  $n = 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, 120$ . As  $n$  increases, the distribution becomes narrower and more concentrated around  $x = 60$ .

Figure 1 consists of 12 histograms arranged vertically, each representing the distribution of the number of non-zero elements in the vector  $x$  for a specific value of  $n$ . The x-axis for all histograms is labeled 'x' and ranges from 0 to 120. The y-axis is labeled 'count' and ranges from 0 to 100. The histograms are for  $n = 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, 120$ . As  $n$  increases, the distribution becomes narrower and more concentrated around  $x = 60$ .



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 <212> DNA  
 <213> Rattus norvegicus

<220>  
 <223> Genbank Accession No. AA818615

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<210> 75  
 <211> 530  
 <212> DNA  
 <213> Rattus norvegicus

<220>  
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 tttacattca tacattgcta gctgacgacc aatgtttccc atcgttatgc ctccagcaaa 360  
 aaatatacat ggcaaccaag agcggacata gagaaaatct ggagatgtgt attgataaac 420  
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 <212> DNA  
 <213> Rattus norvegicus

<220>  
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 ccttcacatt tcatcagtgc tgaccaaagc caaagcaagc taggatggag actacaacta 300  
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 aagttaaaca gagagccctt acaaagacta agaaccaaat gaaaacttgt ttctagcctt 420  
 tgttttaggt caccttaaac taaaatgctt ttacgtactt cttaacattc atgtacacat 480  
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<212> DNA  
<213> Rattus norvegicus

<220>  
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 gccaaggtca gagacatcca tttcactggc atggccctct cctatggaga ccttgctttc 300  
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<212> DNA  
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<212> DNA  
<213> Rattus norvegicus

<220>  
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 aagaggctta cagtgtgttt cattaaacaa agcaaagctg cgacaaaaca ggatcacatc 180  
 aatagtagta tgcacagaa gagttagta atccatcaaa cacaattggg catctgtgcc 240  
 tttcctcaa aagaacaaga gctctacact gaagaatatg tagtgacaa gaagcattgt 300  
 ttgtaggctg tgaaggaaca taaactggca taatgtcact tattaattca agtctcgatg 360  
 acctatgacc tctctgtgaa tacaagggg tccaatgtct taggcacctg ctcatgggac 420  
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 atgggcagcat ttacatattt gaaaaagttc aggcacattc ggatacaaaa gaaagggggg 540  
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 <213> Rattus norvegicus

<220>  
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<220>  
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<220>  
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561

<211> 606

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA818781

<400> 83

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gcacaatggt	taaggcaaaa	tttatgaaga	aagtatataa	agttaatata	agatcatatt	300
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cagatatttc	taatacacag	actttaagta	cagaaaatta	agatgtcaga	gcatatgtaa	540
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<211> 563

<212> DNA

<213> Rattus norvegicus

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<223> Genbank Accession No. AA818796

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gattctttac	acaagaataa	tggtttagagg	aatgagccac	aatagcagat	attatccaac	480
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<211> 407

<212> DNA

<213> Rattus norvegicus

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<223> Genbank Accession No. AA818801

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caacaagagg	cgtgaaattt	ccagagccag	caggagtgc	ttgccctttc	atttctaagg	300
gctgttcctg	cagctccagt	gtgacatttg	cttaaagatg	aagccagccc	cattctaaat	360

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407

<210> 86

<211> 582

<212> DNA

<213> Rattus norvegicus

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<223> Genbank Accession No. AA818907

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<221> unsure

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<210> 87

<211> 612

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA818910

<400> 87

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gcctacaagg acatattcag caccaaataa aagattacaa cagccataga atataatcta 180  
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gttatgtcag gaattgacca atatttagaa tagtgtaatg cctcaaaaaga gtaaagaaat 360  
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ccaattatca gaatattggt cattcttgcg taataaagta tttttagtaa catggtagtg 480  
agcgccccga ggccatgcac accaacaatt gttccctagt cagacataac acagagtcag 540  
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<211> 412

<212> DNA

<213> Rattus norvegicus

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<210> 89

<211> 598

<212> DNA

<213> Rattus norvegicus

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 cctcacacaa gcaacagagt gccacaaaag ttggggtctg agaaaacatg gcctgtccag 540  
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<210> 90

<211> 491

<212> DNA

<213> Rattus norvegicus

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 cttctgtgat aaagtcagag gggtttccaat cctgcattcc tccttcaacc ctgggtcaag 360  
 tagggccatg aaaaatagct gggctctatt gcatgtttca gaggcattaa tttttcctgg 420  
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<211> 498

<212> DNA

<213> Rattus norvegicus

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 gttgaataca agagttaaac taatccacac cagctcaaaa accctgtgga gacttagttg 180  
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 <212> DNA  
 <213> Rattus norvegicus

<220>  
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 aactcaaaaag acaccagaga cagctttttt tttttttttt tttttttggt tttttttttt 180  
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 aataaatgac cctagattgg gcaaagaaaa ccatctttat gaagaagaaa tttaaatgct 300  
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 aggtaaacat tatgtattca ccttctgaaa tctacagtga tcttaacttg tgctttcaat 480  
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 <211> 444  
 <212> DNA  
 <213> Rattus norvegicus

<220>  
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<220>



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<400> 98

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<210> 101

<211> 402

<212> DNA

<213> Rattus norvegicus

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<223> Genbank Accession No. AA819383

<400> 101

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gtatgttggtg gcaaatttcc agaaaacaca ctgaaaatct ttacagttca gaactgcttc 180  
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<210> 102

<211> 529

<212> DNA

<213> Rattus norvegicus

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<400> 102

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acgtggaatg gcctgggtgag acgaacagtt tcaataacctg gttacagagg cacaaagtca 180  
tcctgatgac accggtcact gataaatccc cagggacact gggatcggag aagaccgggg 240  
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ttgggtgggt gaggtaggcg ccaacgcagg gaacaatgct ctcctctcat ctgtctgcac 420  
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<210> 103

<211> 485

<212> DNA

<213> Rattus norvegicus

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<222> (1)..(485)

<223> n = a or c or g or t

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<210> 104

<211> 597

<212> DNA

<213> Rattus norvegicus

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<221> unsure  
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# SEQUENCE LISTING

<110> Mendrick, Donna  
Porter, Mark  
Johnson, Kory  
Castle, Arthur  
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Gene Logic, Inc.

<120> Molecular Toxicology Modeling

<130> 44921-5038-US

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<150> US 60/222,040

<151> 2000-07-31

<150> US 60/222,880

<151> 2000-11-02

<150> US 60/290,029

<151> 2001-05-11

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<151> 2001-05-15

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<151> 2001-06-19

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158

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gtcatcttga	ctgcatctgg	actcacatag	gaggcacctc	tgggagtatg	tgggagggtta	180
ctgccagaga	ggcttaacag	gatggcagac	atttctgaat	atgggcagca	gcaaaccatc	240
agctgtggtc	ctgagctgtg	ccttgtgctg	gagggcaggt	ctgtaggtag	catgatggtc	300
g						301

 $\langle 210 \rangle$  3

<211> 371

<212> DNA

<213> Rattus norvegicus

$\langle 220 \rangle$

<223> Genbank Accession No. AA685974

$\langle 220 \rangle$

<221> unsure

**<222> (1) .. (371)**

<223> n = a or c or g or t

<400> 3

gacctgccac	agcctttatt	gcgcgggcac	tccaccgggc	tctgcaggat	gcacgggggc	60
taggatgtca	gagcggggac	cctctggttt	gttgagggtg	acctatggcg	cantggggaga	120
ccccagacc	cggaactcta	ttaatccctg	gtcaggccag	gctgaagagg	gatgagctga	180
cttggaacaag	ctggattcag	cccgtttctg	tcacttgggt	gcattgaagg	gcagcgcacg	240
ctggtttcat	cgggttgtca	ggagagcgca	accactcctt	cttcagcagc	tgcttcagct	300
gt nagagccg	catgttgggg	ttttcctgct	tcaaccgtgg	cagcttcanc	tcctcaaatg	360
cggtgaaggc	c					371

<210> 4

<211> 290

&lt;212&gt; DNA

<213> Rattus norvegicus

 $\langle 220 \rangle$ 

<223> Genbank Accession No. AA686132

<220>

<221> unsure

<222> (1) . . (290)

<223> n = a or c or g or t

<400> 4

aagataatga	tgacattntc	atgctggaga	aaaaaataag	aacatctagt	atgccaganc	60
aggctcataa	agtntgtttc	aaggagataa	aaagactcaa	aaaantgcct	cattcaatgc	120
ctgattatgc	tctgactaga	aattatttgg	aacttatggt	ggagcttcct	tggaacaaaa	180
gtacaactga	ccgcctggac	atccggggcag	ccgcctcct	tctggacaat	gaccactatg	240

ccatggaaaa gctgaagagg aggggtttttg gagtactttg gctgttgaga 290

<210> 5  
<211> 342  
<212> DNA  
<213> Rattus norvegicus

<220>  
<223> Genbank Accession No. AA686461

<400> 5  
caacaactgt ccagctttga ggaaatctga aatagaatac tatgccatgt tggctaaaaac 60  
tggtgtccat cactacagt gcaataacat tgaattgggc acagcgtgtg gaaaatacta 120  
cagagtatgc aactggcta tcattgaccc aggtgattcc gatattatta gaagcatgcc 180  
agaacagact ggtgagaagt aaacaagaaa gttctccttt aataaaactt tgccagagct 240  
ccttttaaaa aatatggtgt ctgggcttct tcttgtttgg ctttcttgaa accactggca 300  
agacttgggt gaaagtattg tatactgcct ggtttccatt tt 342

<210> 6  
<211> 496  
<212> DNA  
<213> Rattus norvegicus

<220>  
<223> Genbank Accession No. AA799294

<400> 6  
atctgtgtag accacaggca ggtgtttgtt tctggcatgg ccacattcca gatacaagaa 60  
cgtagagaga cccagcaagg caccacaccc tctcatggca gagagggagc agtggggcag 120  
ggtgagggcc agctaataaa gcctcccctc ccccccttaa ctttgttcat agggcaaagt 180  
gctgacggaa ggagaagggt ggtaggttga gagggtagtc gtcaagactt ggggagaggt 240  
agcagatagc cgtcttgagg ctctgttttc aatgagtagt cctagtcgac cttaaccaa 300  
gctccatccg attgtattct tgccaaaaca caacagacac atgcacgaac atggggcgta 360  
agcaataatg tcctctcgtg ttctccacgg ctgctcgaac caagtggctg gttcatttgg 420  
ttgacactga ttcgccttta accatgacgg ttctgtttt ttatttcaca gaaagccaat 480  
aaaattgttt agctat 496

<210> 7  
<211> 328  
<212> DNA  
<213> Rattus norvegicus

<220>  
<223> Genbank Accession No. AA799323

<400> 7  
atgtgttgtg tacagtgcga cagaaattgt tttattcagg tgagaagaaa acaggtggga 60  
gaactcagaa tacaaaagaa cgaacatctc gtctctctcc agccttgaga ctttctggaa 120  
tatccgtgag gtctccaaag ttcccctggc aagttacaca ggcacaagat tgttttcttt 180  
gagtgcgggg atgcggtgaa caaacatata aagtgagaat tcttgcttca gtgaatatta 240  
aataaacaat aatgctacag ctgggaccca tctgagtga ggcgtacgac agaacgcaa 300  
ctgaaagtgc aaagtctggt catgaatt 328

<210> 8  
<211> 591  
<212> DNA  
<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA799461

<400> 8

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ccacacaaat caagacatgg ctttattgaa tttaaattct accacctacc caaaagcctt 60
ggggacattc actgggtcaaa gggcacactt agcgacagac aggaactgtc tctttcctta 120
cgtctgataa attaactctg ctgtaacctt tggatgaaat gcaaggaggc agtgcccggg 180
cttcagcgtg atttgaggtc tacaggtctt ccagggggcc acagtttgtg aattccgact 240
ttgctgagcg ggaggcttgg caggatcagg cagcaggtgc tgggacaaca ctggctctcc 300
tggcctggct gcctactctg ctgggggctg cagatggccc acagacatgg cacatcctct 360
ttcaaacctg gggatcagtc ttctcttttg tgtcactctg tggagagcag aagctctctg 420
ctctgttccc tctctagcta tagcaggaaa cacagtaaga cacataaatt aggtcatttg 480
ccgctctca gtgcctgtca aggacaaaag ttcatggtta tgaactgtcc agcacagccc 540
tgaagactca atgagcttcc tctctcctg agttcccaga gtcgccagcc t 591
```

<210> 9

<211> 683

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA799498

<400> 9

```
ccaaaagcaa gaaataggct atgtttatta cactgtggca agtttgtgct ggaagataag 60
aaacagtctt gtagaaaatc agcaacataa aaataaataa ataaacaaat aaataaacag 120
gatcacttga gaggtgggtc cagagctggg gaaagaagag ccgcaggcag agtcagaagc 180
cagagtctgc agccaggagg tcttctctaa acaacctcag cccgtcacag cccaaacgac 240
tgactgcgcc aatccggtct atcttctgcc caaagcagct tgaactatgt gccatcttgg 300
aatttcgaag tctctcctgg atccggaagg cgctgtcttg agacctagg actcttttta 360
gaagtctttt tgtagggcct tggctccttg agagctgtct ctgagccatt tcctctgact 420
tttctcttat cagctccagc agcttcggca tcgtggattg ttccggggac tggctaagac 480
ttcccagggg atgggagtga cctcccaggg gcgacagatt aaggaaaagc aggagcagaa 540
tcatctgggg caccacctcg ggagatccag gtggcagaat gatgggcaag cacctgcaag 600
gtgtccggct cgggcgaaat ctggccccaa ggcaaattcc cacgatggtc caatgaattc 660
ggacaagcca aactgttccg ggg 683
```

<210> 10

<211> 731

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA799511

<220>

<221> unsure

<222> (1)..(731)

<223> n = a or c or g or t

<400> 10

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gggtacaaaa gtatttattt tataaaactt gtatttataa tagagcttat ctgtcaactc 60
acaaatccta attttaaaca taacacatta cccttagcta atctgatgtt aacctttaca 120
atcaacacccc atttttgga ttttattaag aacctgtact aaatgaagtt ttaaatcaga 180
aaacattccc ttttacctta aaagtgtctt ttaaataag gcaccaacaa gaactacttt 240
cagatgggtac agaatttctt atttcttgaa gactctgtgg ttgaccactt cttcattagt 300
tacctgcagc aagacacctt ccattttact accaacacca ctgaaggaag caagaaaagc 360
tttattaatg atcacttggc ttgcctcagc tgttgaaatg aagcacttta cagtctttgt 420
```

```

ggcaccagaa tataacttgtc catggttcat atcaatgcc tgggaagtgg gaaaaactca 480
atacgggttc ctccaccata accccaattc ctccactcct ccaggacata gttcctccaa 540
cataggtccc ccaggtccgg aacaacaaag ttcaccctca tgacccttgt aaaggtgcgc 600
tcngccgctc ggccaatctg gcccaaggca atcccaaagg gcccataatc caacaggcaa 660
cgttccgggg aatgttccgc caatccaaaa atacgggcaa agtaaccggg gccaaagtgc 720
accacaatgt g                                     731

```

```

<210> 11
<211> 483
<212> DNA
<213> Rattus norvegicus

```

```

<220>
<223> Genbank Accession No. AA799523

```

```

<220>
<221> unsure
<222> (1)..(483)
<223> n = a or c or g or t

```

```

<400> 11
aaatcataaa tgtacaacag cttcttaact ctacacacgc acttaaattt ttaaaggaaa 60
aacgttatgt cttattacac catgatcctg gctaatagct tttcaaaact ttttgagaaa 120
aatcttaaaa aaggtttcac atgtcacctg aaacttacaa atttaacatt atcaaagaag 180
gaatgcttct acactcttac aaagaccact agaaagaacc aacattttaa aggctagaaa 240
ctgtctcaaa gcattttttt ttacatcctt cctcaacagt aagtattaat tatcaatcca 300
tcacaaatgc tctcgcatcg ctctgtgtct ccgcatacaa tgctattagc atactganat 360
aaagttctaa aatgtaattc gaaactgagc cgtcggtact cgggctcaca ctccaataa 420
caattacccc aggaattaga aaatcaatac ggtcttcaaa tacccaattc caatcccaa 480
cac                                     483

```

```

<210> 12
<211> 570
<212> DNA
<213> Rattus norvegicus

```

```

<220>
<223> Genbank Accession No. AA799531

```

```

<220>
<221> unsure
<222> (1)..(570)
<223> n = a or c or g or t

```

```

<400> 12
aaggcggcag ctgtttattt tgaggttaact gtcacacagt actgttatat ggtagaatag 60
tcattatgta atcttgagag aggttggtcta aggtaggatt tggagccttc cacacttatt 120
agatgccttc tcattagttt cttctagttt tgcaattcta gatccaaatt gtatggcccg 180
tttgggcaga agggcagagg atgagagacc aagttccaca gctgcaaggc gtaaaatgag 240
cttctcacca actccacggg gcaaagccag gtctaccttt tcccaaactg gcagagaatt 300
caggaaagat acaacatttt catccagaaa aggaaatctt gcttcctttc catgatcagc 360
aataactcta tcatcacgac caaggtttct agaagaaatg cgacccaatt ccattgctat 420
ttctctattc aatccttcta ggccaagaga ctgaaagcgg gcacgatgac ggggaataacc 480
tgccaactgc tcatctgcna caatcccagt gagaatcacc tttgcaactgc tcttgntaga 540
ctgcacagca tctcgggttc acaacaaaaa                                     570

```

```

<210> 13
<211> 633

```



<212> DNA  
<213> Rattus norvegicus

<220>  
<223> Genbank Accession No. AA799545

<220>  
<221> unsure  
<222> (1)..(633)  
<223> n = a or c or g or t

<400> 13  
caaatgactt agatttaatc actggaagca aactgaatgg aagcttaca cagaagagat 60  
acacgtcagt gctttttgca aaccgagatg ggacagactg ggggctgccc ctcaacctga 120  
tcctttgcaa acaaagatgt ccacagtgtt cctggaactc tggctcagga aaggggagac 180  
tgctggttct gtggttcagt caccttgctt agcactcact cctggccagc atctggagca 240  
ccggtttgcc gggtctggtc atcacccttc ttcttgtggc cagagacaat gtcataatc 300  
cgcagaagca gaactgcagt ctccactgct gttttgtatg tttgtagctt cacagccaat 360  
ggctcccaaa taccagctc tttcatgtcc actaaggtag cagtctcacc attcacaccc 420  
caggtctcac aattctcctg tgtgtgcttg gccgaaggg aggtaagcag acgaatggta 480  
ctggccccac agttctggat caaggtccga nggatgacct ctaaagcctg ngccacagcc 540  
ctatatggcc attgttccac accagtcagt ggcttagatt tgtctgtcna agcatggggc 600  
acagccatct cagaggctcc cacacaagca can 633

<210> 14  
<211> 604  
<212> DNA  
<213> Rattus norvegicus

<220>  
<223> Genbank Accession No. AA799560

<400> 14  
cacagcagaa gttgtgtgag acaggaggct acaccctaca cacaagagta tggtcagagt 60  
ctgaggtagc ccttcccacc ctgatgccaa accccaagca gtcggaccta agttctttcc 120  
cccagtccca ctttaggtgc aactgacag ctattaaagt tagtgcgcc aaaggaccg 180  
ggccccctcc taatgcccct gttcaatgt gtttaccatt gttcttctcact ggccaccatc 240  
tcccgttctg actttctttt tacatgctgg atatgtctat cacgttaagg atcagtaaca 300  
caccagcaaa tattcccctg agagacatcc atttaggagc attgccttca gaggccttaa 360  
acgtcaaggc actgtgtcag ctttggggga atggagctcc tcatatccca ccaccaaccc 420  
tacacataca cacactctcc tacccttgca aatatgggct aaagaggggg agtgatggca 480  
tccccgtgac agctaaaaca acttattgtt cctcacctat agaaacaagt cagagaggga 540  
acataaaagc cttcccagga caaaacggga gaggagatac ttaggggggct ggatcctaag 600  
aata 604

<210> 15  
<211> 541  
<212> DNA  
<213> Rattus norvegicus

<220>  
<223> Genbank Accession No. AA799576

<220>  
<221> unsure  
<222> (1)..(541)  
<223> n = a or c or g or t

<400> 15  
 aacagacaat aaaagggctt tctttttaat tcaaaggat agccagataa gtagatttgt 60  
 ttagaaccat tcttgtgaaa tactttttaa aaaaatacga ccaacttctt tgcaaattac 120  
 agacaaatac ctcaactatg atgatcta attttggtgaa taatatacat gattagacag 180  
 aaataggcaa gctcacactg gaagattaac tatcaaacac tcagtcaaaa ctccgtttat 240  
 ggccccact tcttgatcga tttctgttcc cacttcgtct tctaccgtct tgccgacttc 300  
 ctgaacgact cccctgtcga ctctgtctac ctgatcggcc accagatcga ccaccagatc 360  
 ggccctgaacg gcctgacctg ccgccagacc agccgctcct ctgtctggga ttagaagatg 420  
 tgtttccatc ataattttct tcaatttcag gtaacttggtc tggcactgag agtatccagt 480  
 ctgagtcant gcactctgcc tgtaattctt ctgactcact tgtaggaaca tcaaacaaac 540  
 a 541

<210> 16  
 <211> 590  
 <212> DNA  
 <213> Rattus norvegicus

<220>  
 <223> Genbank Accession No. AA799599

<220>  
 <221> unsure  
 <222> (1)..(590)  
 <223> n = a or c or g or t

<400> 16  
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 ctttacacat cagaaatggt atcaaaagta tgaattacag cacagacaac gatatgaaac 120  
 aggcataaaa caaagctgag gtggagagac aagcactttc tcttttaatt tattaacact 180  
 agcttaaact ttgttaaaga aagagtaagg aactatgttt taggagaact gcagggcctc 240  
 tctttctgtt gaaggctgaa tctcacacag tgttgatcc catgtagggg aaaataaaat 300  
 taattcccca cactctccac acactgtgct ctgcgtcctg gaactttgct ccaacctcct 360  
 cctcaaccaa cctcagcatc tccaaccan aagacagcta ggagaggaca taatcaaata 420  
 ttaggtcctc agggaaagga gaaccaaagc aatagaatcc acttcagtcc tgccagatag 480  
 cacctcatgg attcctctca gtctagcana aacaggatat gaggactcct ctgaataggg 540  
 cagaaactgg cggttagtct attaacccat accaaattag gaatcgacaa 590

<210> 17  
 <211> 687  
 <212> DNA  
 <213> Rattus norvegicus

<220>  
 <223> Genbank Accession No. AA799601

<220>  
 <221> unsure  
 <222> (1)..(687)  
 <223> n = a or c or g or t

<400> 17  
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 ataccacaaa gattacagta agaaaagcac tttatgacaa tatttcacaa attcacaagg 120  
 atcactttta tatacaaagt aactgctacc attctgaaca caaagcagcc agtatgtaca 180  
 tagtggttaat aaaatgcatg gtgtccttggg actttttattc tttacacata aagcacaaaa 240  
 agatttaggt aaaaaattta aacagggaca tttctagatt gtgggaacgt tattagaagt 300  
 gtatgtccct tctcatagtt attagtattc ttctccaata ggaacatcag agttaagct 360  
 cataccctgt tttgtgctaa cagttccggg gaggtatttt ctactccagt actcaaggaa 420

aacccaaaaa gccaaacacc attctaggac ttccctgggtt attttgtttt tcaaaagttt 480  
 caagtgcacat gtctagggttg gaaatgatcc cttccactgg ggcattataa ccgatgtgta 540  
 cagatcagtt gaagacagct ttacacagaa aactgctaac tagcacactt cttcaccatc 600  
 ctaataaatc tacacacaca gaaaaatggt gacaaaattt cccacnttnt atataaataa 660  
 ttttattaca tacacattga agtggca 687

<210> 18

<211> 539

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA799633

<400> 18

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 agcatggcag ccccatgctc agaggcatat ggggtgctcag tcagagactg cagggcatgg 120  
 ggaccatggt ctgtgggtctc atgatcggtc ccttcttcaa ggctccagga aggatgctgc 180  
 tcctcagccc ttgcggggcg tgctcacaca gtgctggtat gccttggcca ggtcggagca 240  
 tagaagtacc tcatgcagat ggtcacggta gcagcggagg atctgggcct gtaggccaga 300  
 gcatacaggc tccactctgc ggggctttat tgtgctctct gcttttgaag ccgcctcgtg 360  
 gaattgttga gaagacagtt tatacagctc agcattcttc tcttgatgc gttcctgctg 420  
 ctctttagtag taagtgtcac ggcggctgag ctgggcctct ctgttcttca gttccctggg 480  
 ctgtcaagtg gagcaaaaga acaacttggg tccccagagg ttgaagaatc caaaaatcc 539

<210> 19

<211> 591

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA799645

<400> 19

caagaaggaa aaccgagttt tattggaggt ctgagcagca aggggtgtcc gagaagcagg 60  
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 ggtgccaagg gggctctggc tgagtttctt ggagccaggt ggaggttcta ccgcctgcgg 180  
 gtggacagac ggcggatgga gctgcggaaa gtccctctct cttcgtcggg ttccccagtt 240  
 ctctgctggt ggttgaattt gcaccggcat cttttgctaa ggatgataag gatgcccaag 300  
 atgaagagga tcccagcgat agtgaggccg ccgatccgca ggggtgtggt atcgtaggtg 360  
 aatggatctg gttcctgcgg agcttctgca ctggccatgg agaggagaca cacacagaca 420  
 atcaggatgt ggccgggaga tgccattgcc ccttgaaagg gaagcaagct atctccggac 480  
 acaggtggaa tgctgtgaga caaacaggac atgccagacc tcacctgccc ctacacacct 540  
 cagccagtgg tctctccgta ctcaggcagt cccagttctc ctgccctcgg c 591

<210> 20

<211> 616

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA799672

<400> 20

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 atgccgttcg tcaggagaaa ctgagaccgc aggtagccct ggagctgggg gacagctttg 120  
 atctttggga aaatctgcga gtccacagct ttctgatcag cctttcgctg ctctgtaatt 180  
 tcgtattttct ccttctctgt gtcgaagatc tcacctctct gatgcctggg cttgcgaagt 240

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ggcttcttct tgaagtaagc atcagtcagg tgtttgggaa ttttaacctt gctgatataca 300
actttttagt aggtggcgat gacaaacttc tggtgtgtcc tacgcagagg aactctgttg 360
agggaagag gtccagtcac aagtagcaag gaccttttct ttcttcttct tcttctcaac 420
ctttgtcttg gcagcagagt atttcctttt gtacaaggcc tttctggaat acatagcaga 480
tcgtgaatac ctgccgattc ctctcaccag gacagggttc cggctgcaat ggggcttact 540
cttcctcagc tttttagcct tagaactact ctttttgacc gcaccagcgg gccggggccc 600
gggggcagta gcatca 616

```

<210> 21

<211> 588

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA799729

<400> 21

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tataacatac attgtgagaa acttttgaaa acaatataac gtccacctgg aacaacgcag 120
tgttacagac gtaggaaccc attgggtcatg cacattttgt gccattttct ttaactagtt 180
gtcacaatgc tgaacttggt tgaagccatc tcgctgacag agcggtaggt ctggatgggtc 240
tctagctggt ctaggcacca gtctagttcc tccagcgtct ccattgctag tttctgatat 300
gattcttctg caaacaaca cacagacagg tagttaggct gcagcggctg caggctggcc 360
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ttcattgttt gcttgccgac tccttgcttc caagctcttt ctggtgctct gcccgggagg 480
gggagtggtt ggtgccaagt tttcaccccc tcgccgggat gaggtgtcag tgatctacca 540
agaaacttcc tcagaggaag aaggcgggac ctcggtgccga attcttgg 588

```

<210> 22

<211> 616

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA799744

<400> 22

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caaacaggaa attcttttatt gcaaagatac aaaagcagtc acggcgacat gtacagcaat 60
aaattagggt gtggccatga ggcaggggtgc agacggggcc aacagtctgt gatcttgatc 120
tcttctcaat aatttataac atgggggaaa aaaagcacia aaaaaaata aatattgaaa 180
tgaaattgcc aagtggcagg cggctgagga tgccaggcct cggcatgatc ggcattgtgtc 240
cctgacacct ttgaaatag ttaaagcttg ctttaagaag tcagaggaac aagacagaaa 300
actcactttt atcttttaaat aaaaacatcc atatattatt aagttgtgac aatgaaattt 360
cagtgacacg aagccatggg gcatgctcac acccttccca gcccctcct ggcaggtgtc 420
ctctgcaggt gctccagtgg tactgacagc cctgtctccc ctggccgcca agagtatggg 480
gcctccaccc aggaggacca ccagaggcca ggagcgggca gcaagccagt cagtgggtcac 540
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<210> 23

<211> 567

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA799766

<400> 23

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<211> 556

<213> Rattus norvegicus

<223> Genbank Accession No. AA799803

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<211> 582

<213> Rattus norvegicus

<223> Genbank Accession No. AA799804

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taagggtcaac	catgactgga	acacatgctg	ctgatccagt	tgttcaagac	cagcctgggc	540
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gggtgaacga acacacttgt tcttctgtat agcatgaat tctttacata aactcaacat 240  
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gcacgcacca ctcttgagaa gcagtgttct tcatggacac ttactagaag gtcatttctc 420  
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<211> 612

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA800059

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gacctgacac ggaggtggtg atgggggctt acaggcatag ggcaggttg agggagtgg 180  
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atttccaatc acatagtcaa atggactgat tgatacaacc acatgacgtc actgtattgg 480  
ctcatgcac tagagagcct gggagaagca aaccataagg tcctgggcag aacccccggc 540  
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<210> 28

<211> 599

<212> DNA

<213> Rattus norvegicus

<220>

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ccacagtgtc gcacttcttc caacaagtcc acactactaa tagtgccatt ctctgggcca 300  
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acacaaaaat gttaaactaac attaattagg aaaattttca agataaatta cttagaaata 540  
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<210> 29

<211> 613

<212> DNA

<213> Rattus norvegicus

<220>

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aaccgcagca gactccttaa caaggccttg aagcttgtgc agcggatatc atacgacact 420
gagtacatct catacatggt ggctttgaca ttgagacagc cgagggaagtc cttggggattc 480
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<210> 30

<211> 560

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA800318

<400> 30

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gccagttcct aaggctggaa gtggctaggg caggcagtg cgaggaaata gctggatgag 180
ctgaagcttg ggtggcagtg cttactcaag cctgactcct gcctgtctca ggccctgggg 240
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gctgcttcca cacctgtctc tgtcagttcc aacaccgtct cgtgtttcat ggaagacacc 420
tgaagatctg ggtcctcagt cagcccacac aggttgagat cgtaagtga gtcaaagaat 480
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<210> 31

<211> 560

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA800339

<400> 31

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cgggactact agctaccatc tgcttaacct tctcaggcaa gagcctaggc agcttctagt 240
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agaaagtttg gtaacagggg ctatgtcctt gtgcggagcc ctccctgtgg ggattggagg 360
gatgggacac agtgtgcatg aggacgggag aacaaagagc ctgggacaat ttatgttata 420
ctgaactgtc cattcggttc attcattccg ctaaaccgtt cataaaatta agagtattct 480
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<220>  
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 tattgaacaa gcttctgctt tatttattgc aaatgttact ggatgacttt ctaggttaaag 180  
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 accaaagtgt tacttgggtc tggagagaag gttcagtagt tactaactag cacctgttct 360  
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 tcatagtacc ttacaccccc tgctggcctc tcttggcact acagagacac atgcaaatga 480  
 agccctgata ctcatcaaat aaaattaagg attaaagaca aatttttggtt tcatgaaatg 540  
 aattctactt ccattcaaca ttttacaaaag aataatggga ttcactcatt ttcataatta 600  
 gcctttggag gcagatataa gaatttaatt tatgttttga tagtacagaa taaagactct 660  
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 <213> Rattus norvegicus

<220>  
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 tgctatacta ccaacattaa attgcagtta cgttggagcc taagttgaat agaaagcctg 180  
 taacagaccc aaggaacgcc tttcctggac tatacatgca aatcacctct caacatacag 240  
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 gcacagcaga agggaatgca atctagaaga gcaagccctt aagcagtagc ttatgataaa 420  
 ctttaggaat gtatcatttc tatcactaat atcacaggcg aaatgtatta tgccaccttc 480  
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 <212> DNA  
 <213> Rattus norvegicus

<220>  
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 tgcaaggcca gagctacagt ggcaagctgc atgtggctgc gcgcaaagc tcagtgggtc 180  
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 catattcact aggagctggc caggcagact gtctttctta gtgacctgtc tgctggctgt 420  
 tattatagtt agcattttaa aaaagggggg gactgaattt taaaatagag cacttggcgg 480  
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551

<210> 35

<211> 610

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA800739

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tgacttaaca attctccgct cccgatgaaag gaaaacagtg tatgaagaat ccccaagtag 240  
attccaaccg aagccacctg gtatttttgg agctgggtgct caatgcctca gcttatgcag 300  
cacactcagg gtatggcaga ggcagttaag aaaatgagtc aaatttagca tctcagtact 360  
acagtgcgct ttgcagacct tcggactatt tttcctagcc aaagtacagg ggaattcaga 420  
caagagccac cgctgcagac cactatccca ttagtgcaaa ctctgggttca gatactgaag 480  
aaacatgttg gccaatgag gcaggttctc attgttggga tgcattttag tgtaggaaat 540  
aaactggcga cggaggcgac tcaattctgc caaggtcaag ggacgggtaa atcggaggtg 600  
ctccgtggtg 610

<210> 36

<211> 359

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA800797

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aggctgtgcc ttcagcttct gggttaaactg cagtgaagta gccacagggt agttgctgag 180  
aatcatgttg caagcagaac catcgacat gctgaaactg gccacagagg ttgtgtggag 240  
gtcctcctt aatacgatct gtggaaatga gcccggtggc ttcggaaaga acgtgccag 300  
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<210> 37

<211> 495

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA800962

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<210> 38  
 <211> 560  
 <212> DNA  
 <213> Rattus norvegicus

<220>  
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 aactaacaac tgcctacta ggtgagagag aaagattatg tgagaaaatc agaataccat 180  
 gtgatttgta gatttgggac gttcagaaac attgggaact aaatttagaa tggggccaaag 240  
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 cctccaaaagt gtgcgatga tggccttgca cttgggaatc aggttctgct cacttgga 360  
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 agccaccagg aatgctttct aattatcatt tgcaactaga actgtaatca gaaagaaaat 480  
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 <212> DNA  
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<220>  
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 caagccagaa acttggtcag tgctggcaac attttttgag tgtttgtgat ccaggaatcc 240  
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 aattaccaga taaccagatt ctttatcaga attatggaat aaaatatgta ctgtaacaaa 360  
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 aagattacat tgaagaa 437

<210> 40  
 <211> 485  
 <212> DNA  
 <213> Rattus norvegicus

<220>  
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 aggcactcca ggtggactcg agggccatcg ctggctccac ctctaagggt aaactggacg 300  
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<211> 416  
<212> DNA  
<213> Rattus norvegicus

<220>  
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 agggctgaga tggctgggat caccagttg gtccaccaac tagaaagaca catgagcaaa 300  
 gagatgtttg agtgaacctc agtgcagaga ccgcaccccc tctgatggaa aactaccaca 360  
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<210> 42  
<211> 454  
<212> DNA  
<213> Rattus norvegicus

<220>  
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 ccagggtaac agtggttaac agtgtaata gataaaaatc caagttggtt ttttgagaaa 180  
 cgttgtctgc agactgcaa tcttgacgtt tctagagcca aggactcaga attccttctt 240  
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 gtaaccactc cgtggtcgtg ggagagcggg ctgaaatcca cttcccagcg ctggaaagtc 360  
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<210> 43  
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<212> DNA  
<213> Rattus norvegicus

<220>  
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<210> 44

<211> 522  
<212> DNA  
<213> *Rattus norvegicus*

<220>  
<223> Genbank Accession No. AA817726

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 ccatctctca cattcagtgc tgaagatggg catgaagggtg gagtatactt gagaacatgc 420  
 atggtaacga atgtcaaaga gttttctcac agtgaccttt cccctgtctg cttcttccca 480  
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<210> 45  
<211> 557  
<212> DNA  
<213> *Rattus norvegicus*

<220>  
<223> Genbank Accession No. AA817761

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<210> 46  
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<213> *Rattus norvegicus*

<220>  
<223> Genbank Accession No. AA817829

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 gcactaactc catgggagct gcaatagaat gaaccatttc tgtggcggtc ccagggtctc 540  
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<222> (1)..(612)  
<223> n = a or c or g or t
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<212> DNA
<213> Rattus norvegicus
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aggagccgag	agcagctagg	gtgaggatcc	agaacacagg	cttgacagtc	cccattcctgt	360
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ccacttcaga	gatctcaca	acggaaaatt	tgcttcgcaa	aaactccttt	aaacgctaac	540
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<220>  
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18

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 tcattgtggc tggagccggc tttgcctccc gcaaccccta ggctcccaag tcttggcagc 420  
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<210> 50

<211> 386

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA817925

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 ggcacggcag tcctcagaac gggcactgag acagcacctc atgcgtgtca ggtctttaat 180  
 tttttccctg ccagagcttt ttctttcttt gcttcgttgt tactgtgttt tttctgttta 240  
 acaattcaat tggcagaaaa atggctatcg ctggtggaca ttaggggtgc agtgaaaaaa 300  
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<210> 51

<211> 565

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA818039

<400> 51

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 agctccgagt tattaacaa accttgctct tgtacaactg aggtctgatg gttttaagtt 180  
 gatgcctggg tgcagggcc aacacaacct tagggatgtt tcttacctgt acatacatat 240  
 atataaaat attccacaaa tgtgtgtata catgggcatg tattaattta cgtggggaat 300  
 ttataaaatt atatatacat acacatacat gcatactat atacagctcc ccacctcac 360  
 cagtgaagctg ctgaagtagc tcgttagctc cgtgctcgat tattgctgtc tgggtataact 420  
 acatgatatta gtgccaaagc cagacacatt ctctgggtgt ggatgggtcac tgtcatatag 480  
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<210> 52

<211> 525

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA818089

<400> 52

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 tggacacgat gaggatttta ttagcacagg ttgtcacaag tcgccagctg ttctcattct 180

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tctgccctta tctgtctcat ggagtctcgg tccctcagag ttgcagtgtg gggggtcttg 360
ttcactgtat caaagtcaat ggtgatgcca aacgccacgc caatctcatc agttcttgc 420
tatcgcttc caatagacc agaggaatcg tcaactttat gagacacgcc atttcgagtc 480
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<210> 53

<211> 482

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA818105

<400> 53

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acaagatgga tcacgacaac taagggagtg acttcttttg tgcccagggc ccttttacag 180
ctgacccatg gtcceaagta atacggactg aggaagttca gcaagtggca gcatcaatga 240
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ggtcagcact gtaacaccag gagcagagtt cctacggtac atctcctcct cctaactata 360
agaaggcagg tccctcatat cttgggtctt caagacatag cagcaccaca cccactgcc 420
ccaagcagct tcactctgct acaagcctct ccctgcgaat gttttcagag tgattgaatc 480
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<210> 54

<211> 535

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA818107

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cagatactgg gctggagttg agctgagtgc tgttggttaa tgaagggtgaa tatgagatat 240
ggtgaatgca aagtgagaac caggaagtgt ggagtgaagc caggctagta gcctaacca 300
tcttagcagt cgactgactg agagagaagg actggtgtga ctgattttta aacaaagcaa 360
aaggagctgg gaatgacggg aggccttgta caccagacct ataatccag atacctggaa 420
gctgagacaa gagagtgcga agttcaaggc cagcttgagc acgtgtcgag actctctctc 480
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<210> 55

<211> 567

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA818123

<400> 55

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ggactccagt cagaccagaa ggctgccaat caaacttggt attggcagag acagcagcct 180
ctttgatctt cagaggtttg taaaagcttt ccaccctaatt ttctgagtat cataaaaagt 240
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aaaaagcact tttattctgt ccttttcccc ttttaattttt ctttttttaa ccagcaaaaag 300
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aaggaagccc tcagagatgt gtcagtgggtg ctgaggtcca ccgaggccca caccaacagg 420
tgtggcattc catgctatca cttctacaaa gaaccatgaa gaatgcttgt agaccctatg 480
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<210> 56

<211> 518

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA818139

<400> 56

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taacaaccat ttaaaccatct tttaggcact tgggtggaaaa gacactggag aatgaccacc 180
tactgactgc tataagcaag tggtagggat gaaggctggg ttcctgtcta tcctttaccc 240
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ccagtgtatt ttaaaggagc cgggtggtag tggtagcagg ctttaatccc agtacttggg 360
aggaagaggc aagcggatct ctgagagttc aaggccagac tgggtctacag agtgagtcc 420
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<211> 363

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA818158

<400> 57

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ccttacttat taaactagga agaatttttc tgaaacgcac ctgttaaatt agtctataat 240
atattaatga atggaggaca tgtatttctt agtaaatatt ttaaacatga agtatacgct 300
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taa 363

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<210> 58

<211> 357

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA818163

<400> 58

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 <212> DNA  
 <213> Rattus norvegicus

<220>  
 <223> Genbank Accession No. AA818211

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 atctacccag ctggggctct cggtagtctt aatgtggtgc tgaagttcca gaggattctt 180  
 gggagagtcg ctgggtcttca gttcagggtg gaaggctgaa gacactgggt gctcatgaca 240  
 gcaaagggca gcagcagtga cagcggcagg gacaacgtaa gtgagcagag aagatgagct 300  
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 tttcccttca gggatccttg ttttgtggcg gtgctggaag tgcttccac ctcagctaca 420  
 tccacaggtc aggcagctca aagtctctaa gtgcagaccc tggatcctga cgctctggc 480  
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 ttcctccatc agagcagaaa cctacacctc tc 572

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 <211> 464  
 <212> DNA  
 <213> Rattus norvegicus

<220>  
 <223> Genbank Accession No. AA818258

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 cagaacactt tctttgacta cattaggaaa taagtgtttt tgctgagcca actctaattt 360  
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 <211> 494  
 <212> DNA  
 <213> Rattus norvegicus

<220>  
 <223> Genbank Accession No. AA818264

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 <211> 429  
 <212> DNA  
 <213> Rattus norvegicus

<220>  
 <223> Genbank Accession No. AA818271

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 aataaaatct ggtccaggac aagaggaggg ccactccact ccactggctc tcattggatg 360  
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 tctccctta 429

<210> 63  
 <211> 548  
 <212> DNA  
 <213> Rattus norvegicus

<220>  
 <223> Genbank Accession No. AA818287

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 <211> 554  
 <212> DNA  
 <213> Rattus norvegicus

<220>  
 <223> Genbank Accession No. AA818288

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 <212> DNA  
 <213> Rattus norvegicus

<220>  
 <223> Genbank Accession No. AA818355

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 attttaagat catccgaaat taaagacaca ttgtaagcca gtccttggt ctctgggtcc 180  
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<210> 66  
 <211> 340  
 <212> DNA  
 <213> Rattus norvegicus

<220>  
 <223> Genbank Accession No. AA818412

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<210> 67  
 <211> 564  
 <212> DNA  
 <213> Rattus norvegicus

<220>  
 <223> Genbank Accession No. AA818421

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 taaatatcta gttaataaat tcagttggta ctggctacag cacatcagag ctagcgaact 300  
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 tcaatgacaa aatagagcat agatgaaaaa tattttccaa gacacctgaa cacatgaatg 480  
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<210> 68  
 <211> 519

<212> DNA  
<213> Rattus norvegicus

<220>  
<223> Genbank Accession No. AA818474

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 aatggtttca attaccagca ttgaaacaaa attagtgcga aaaaagccaa atacaattgt 180  
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 cctgggggtg atgtctcttg gttgtggtat catccttttc ttcacaaag gacagactca 300  
 taccaggatc acaaacacac actgggtttca gcaaattgat agtcacagtg taaacagggc 360  
 caagcaacca aaacctaaga acctaaagac gagcaagata aagacaatta gagtctactc 420  
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 tttcaagatg tcaaagaatg aagtcacaaa ataaaattc 519

<210> 69  
<211> 450  
<212> DNA  
<213> Rattus norvegicus

<220>  
<223> Genbank Accession No. AA818490

<400> 69  
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 ggtaaggggt gtcgtgggtg tccctgagaa gctcagtcca gagggccttt gtctaagaga 180  
 ctctgagaaa gggatgggtg gcaggaagct tggggaataa ggggtattaag aagagaataa 240  
 attaaagggg gggcttgagg gacaaggggc ctgtgctgtc cttcaaacag ctgggagcag 300  
 accacgggtg ggaaagaggg tggcgggaag agcttgatag actatcttaa gaaacaccgt 360  
 ttacccactt ccctcttaac cactgcagtg cacaacgagc cagggcacag ggcaggagcc 420  
 cacatgcccc agtggccttc aacatggcac 450

<210> 70  
<211> 507  
<212> DNA  
<213> Rattus norvegicus

<220>  
<223> Genbank Accession No. AA818521

<400> 70  
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 tacaaaacag taaagaaaac cttttcttca caaaagatac acatatgata catttggtcc 180  
 ttacactgac atatgaactc attcctagct tacttaaaac aaaacccttc tggactctgt 240  
 atgccaatat ctagaggcat gtacctgggc cttttatttt atccagaaaag caaagctatg 300  
 cagagaaaat tcctcagttt ctttattaaa aaatggcctg catatggcct gctacttatt 360  
 attaatgac atttaaagt tctcaagaag ttggaaactc ttttagaccag ttgtcctgaa 420  
 atgactggac aatgccctgt ggatgttgct aaaatgcagc ttcttatgaa ctggctcact 480  
 ggggtgggag tggggtatgg tgggggt 507

<210> 71  
<211> 557  
<212> DNA  
<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA818524

<400> 71

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attaaggatg taaccagttt ctaacatgag cctattttct acactgctta tgcacatatg 180
cccattaaca aatggaatgt tgtcgggttac atttattggt ttgtgagtgt tttctggaaa 240
aactgcagtt atttgtgaag accaaagttc catgctagca ttgcatgcat ccaaataatta 300
atgcacagag gcacagtaga gcaacaagag agcatattga aatactagca caccctattc 360
ccctttttat tgcttggtta gcttaaactt taaaaaccaa gtaaaaatct gaattcagcg 420
gtcaactgcc aaagaaagta acagcagggc acatacttag gacttgaatg aaattgttaa 480
gcactagctg gcgcaacagc agacattttt tttttcaggt atatgaccac cttagtatct 540
aaagctcctc aaacagg                                     557

```

<210> 72

<211> 492

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA818593

<400> 72

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cagtgtttta gtgaaaggct taaatttttt ttaattgaac tactagtcca attaaaaact 180
caaaaaactc atttgtttaa agtaactata tacatagata aagtgggcat ccagagagta 240
tagcagcagc cctttaatgt atacaccagg gagtgatatg catcttcctg ccctctgcct 300
ccagcagttc ccttcgaagc tggcctgttc ctctgcaccc ttcagggctc atgattcctt 360
gcgtagctct gtctgttggt ggtttcgtgt agagtcgtat gtgagtcctc ttttctttct 420
ttgttagact ctgtggtcct gaagaaatca gttacatata aaaccactaa tattgccaca 480
acagctcctt ga                                     492

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<210> 73

<211> 515

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA818604

<220>

<221> unsure

<222> (1)..(515)

<223> n = a or c or g or t

<400> 73

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cggcgccggt gggctcgttg atgatccgca gcacgttcag acccgcgatc acgcccgcgt 60
ccttggtggc ctgccgctgc gagtcgttga agtagggcgg cacggtgatc accgcgttgg 120
tcaccgggtg gccaggttac gcctcggcga tctccttcat cttggctcagc accatggacg 180
agatctcctc cgggtagaac gaccggttct cgcccttgta gttcacctgc accttgggct 240
tgtcgccgctc gttcaccacc tggaaggggc agtgcttcat gtccgactgc accaccgggt 300
cgccgaactt gcggccgac agccgcttcg cgctgaacac ggtgttctgc ggggtcagcg 360
ccacctgggt cttggcggcg tccccgatga gccgctcggt gtctgtgaag gccacgtanc 420
tgggggctcg gcggttgccc tggctcgttg cgatgatctc caccttgccg tgctggaaca 480
cgcccacgca cgagtaggtg gtgcccaggt cgatg                                     515

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<210> 74  
 <211> 470  
 <212> DNA  
 <213> Rattus norvegicus

<220>  
 <223> Genbank Accession No. AA818615

<400> 74  
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 ttagagagaa cacagacca cttcccaggc aggcaactgt ttccaatcc ccctcatgct 180  
 acttctgtgc ttctgttcag aaaggtgata ctgtgtccca gccctagcaa ggctgaggca 240  
 ggaggaccac cagtgtggga ccagtatggg ataggatata taaggaaacc ttgggtcttg 300  
 ttgtttttta agggaaagaa aaaggtaagt ttgaaaccga attgtgcaga accgatcaca 360  
 actcatacta aggatggaga tagtctttta ccaaaaacca acccggtcac cagcactaag 420  
 atttgtttct ctggatttga agaaggaatt gagaaaatga tctgcaccaa 470

<210> 75  
 <211> 530  
 <212> DNA  
 <213> Rattus norvegicus

<220>  
 <223> Genbank Accession No. AA818627

<400> 75  
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 cacacacaca cacacacaca cacacacaca cccaatcaa ggaaaaactg tgcctcgaa 180  
 attttccagt ccaaagttct gttggtgccc ctctcgacc caccgtgctt tcccatggct 240  
 tccacacaac agctgagact tctgccctct tcattcttga tgagattttt cagcaataac 300  
 ttacatttca tacattgcta gctgacgacc aatgtttccc atcgttatgc ctccagcaaa 360  
 aaatatacat ggcaaccaag agcggacata gagaaaatct ggagatgtgt attgataaac 420  
 accattgtag actaacagtt ggggtgacaac gggtgctaag aaagcaattc caacaccaag 480  
 gccaaaacca cttctagatc tgtcaaaagt ccaccatagt cctactgaca 530

<210> 76  
 <211> 584  
 <212> DNA  
 <213> Rattus norvegicus

<220>  
 <223> Genbank Accession No. AA818700

<400> 76  
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 aacatagtaa aattttaata cagtattctg gatacaagta gaatagcact aagtaaagga 180  
 ctgtagttac ctcagcagcc tgggagtatg gggtgagatc aaccaagggt tagaatagcc 240  
 ctttcacatt tcatcagtc tgaccaaagc caaagcaagc taggatggag actacaacta 300  
 accttccatg ttaaccagtt attttaaggt gacttacct cacttaattg cagttgaggt 360  
 aagttaaaca gagagccctt acaaagacta agaaccaaat gaaaacttgt ttctagcctt 420  
 tgtttttaggt caccttaaac taaaatgctt ttacgtactt cttaacattc atgtacacat 480  
 tctttcaggc caaagtttca gcttgggaat cttgccaact gtatgtccaa cttctgaaca 540  
 tttgcaatca gacaaattta ctgtataaaa cagtaagatt tact 584

<210> 77  
 <211> 557  
 <212> DNA  
 <213> Rattus norvegicus

<220>  
 <223> Genbank Accession No. AA818702

<400> 77  
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 cccacctcta ccctggaagc tgccgccatg atctcatgct ctgggctgct aggataaggg 180  
 ctacacgtca tcctcagaca caaggcagta gaagtctgtt cgcgcactgt agtttcgaga 240  
 gccaaaggta gagacatcca tttcactggc atggccctct cctatggaga ccttgctttc 300  
 gtgtagtgga gttggtggct ccccaaagac aggtccacgg acaccaggt ctccctcagg 360  
 gtctggatcc agctctgact ccatggcccg gccctgggca gcacgtcctc tcacgattag 420  
 catgggatct ttgtcatcct gaagtcgggt ttgggggtct ccctccacgg gtctgtattg 480  
 caccttccgt ggtagtgcc aactgtagctc tttccaaaaa tcagaggaag gtgtcacgga 540  
 gccaggcttc caaagca 557

<210> 78  
 <211> 537  
 <212> DNA  
 <213> Rattus norvegicus

<220>  
 <223> Genbank Accession No. AA818721

<400> 78  
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 gctctccgct gcccaagagg agagcacaag tttctcaggg aaccactgct cacaagcaga 120  
 tgtagtcctt ggatgttact ttctgtgggt ggcaccactg ccttcaagga agggaggcct 180  
 ggaagaggct cgcagtctcg gtacccctca gagcggggag cctacttccg ctttctgtac 240  
 ctgctcactc ttgtgggtac catcacagta agggggccgc cgagtggcct tgcaggtaca 300  
 gagggccact gtgcgtgtct cttcggcctt gaacttgagt ggggaaaggc cagtgcgctg 360  
 gaagaagtgg gagccatcgc agaagggtcg attcttactt cggccacata cacaccact 420  
 gtaggttttc ccggcaacca gctccaacct gatgggtgtt ttctgtgcc cactggctt 480  
 ggctggatct ttggggaacc atcgggccaa ccaagaggag atttccccct cgtgccg 537

<210> 79  
 <211> 596  
 <212> DNA  
 <213> Rattus norvegicus

<220>  
 <223> Genbank Accession No. AA818741

<400> 79  
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 agaagatggt ttacaggtgc ttgagcatcc cactggattc tctaccattt caaggtgcaa 120  
 aagaggctta cagtgtgttt cattaacaa agcaaagctg cgacaaaaca ggatcacatc 180  
 aatagtagta tgcatacaga gagtgtagta atccatcaaa cacaattggg catctgtgcc 240  
 tttcctcaaa aagaacaaga gctctacact gaagaatatg tagtgacaaa gaagcattgt 300  
 ttgtaggctg tgaaggaaca taaactggca taatgtcact tattaattca agtctcgatg 360  
 acctatgacc tctctgtgaa tacaaagggg tccaatgtct taggcacctg ctcatgggac 420  
 tgtagtgtta tttccagggg gcacagctcc atacaaagac actaaagatg gggttggaac 480  
 atggcagcat ttacatatct gaaaaagttc aggcacattc ggatacaaaa gaaagggggg 540  
 gaaatgcaaa tagaaatttc tcttaagtct ctgaaacaca gtgcaaaaatt gagaca 596

<210> 80  
 <211> 544  
 <212> DNA  
 <213> Rattus norvegicus

<220>  
 <223> Genbank Accession No. AA818747

<400> 80  
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 ctgtcatata ttaaaaacga gaataagaaa gcacacactg cgtataggaa gctgccttct 180  
 cctggaccat tttcacatta tctgggagac agaactgaaa caaaatacag tttcaccac 240  
 atgcaacact gaaaccatcg ctgcgtagac actgcaagct ctgcggagga atgacttctg 300  
 tgaggaagcc cctggtgacg ccgccgagat aatcacccat gagaagataa acagaactcg 360  
 atggagaggc ctaaaggcct catgccaaagt cccacagagg aatgcagcct tttgctctcc 420  
 aaaccctccc tcaaagccga ccaagcaatg aatcagaggg gtctgccacc tgggctgcac 480  
 ttccttccca ctgtccccga atagcaagca gcacagtgtg aacacaaggt acaaactctgg 540  
 gttt 544

<210> 81  
 <211> 488  
 <212> DNA  
 <213> Rattus norvegicus

<220>  
 <223> Genbank Accession No. AA818770

<400> 81  
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 tcggttccca gcctcccagg cttgtcatcc tctgaaggct gagtggggtg tctgccctgc 180  
 accacagctc ttctccaaag ccgaggaaaa cccatgggga atacagggtg agaggacctg 240  
 aggatcatgg gatgggagcc cacattgaac ctggtgagg tagtctgtcg cctgaggccc 300  
 acacgggtcc tgctgaggta aaatttgtaa gtttatttca gggacgtggg tcaggactcc 360  
 tcggtgccag agtcattctc ttcattccca aagcagctgt cggcctctc cacttcaccg 420  
 tcctcatagt agtcgtcgta gaagaggtct gagccctcgt cgggcgcgag cgccttggcc 480  
 tcgtgccg 488

<210> 82  
 <211> 561  
 <212> DNA  
 <213> Rattus norvegicus

<220>  
 <223> Genbank Accession No. AA818774

<400> 82  
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 tacatgcatt aaaaagtctt tcagctgctg cagaggaaac gtcagaagcg aggcctgagg 180  
 ccggagctcc gactctgcac gggacacagg cgtacacagg tagctcacag tatgcacagg 240  
 ttaatgatag acacagtgc accggtggct tggttggct ggcagctgcc agtacgatga 300  
 caatgtggct cttctgaaat ggaggcagcc ctgtcctgcg ccatcagccg ggccttgcct 360  
 ggctgtacaa ggcttcgggtg tgtagtgtgc tctgggttgg tcggaggttg gaagcaccaa 420  
 agacccttaa cctggtcctt cggcaggcgg gacaggggtc attatttttc tcttggccag 480  
 aaatggctgt tcctcagaat agataaagtt ccttagcctt agttatcatg cctttccctt 540



tacaaggccc ccctcgtgcc g

561

<210> 83

<211> 606

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA818781

<400> 83

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aagcagtgat acaccaaata caggcattat aaggattttt tttttaagta agtatctgtt 180
tagaatacaa tgttacaaaa gcaagaattg gattttaata aaacaattta ataaaacaag 240
gcacaatgtt taaggcaaaa tttatgaaga aagtatataa agttaatata agatcatatt 300
ttttaatatc ctttggggaa agaggcaca gaattagaaa tagcttaaac attttttttag 360
aatattagcc ataagaaagt aaaataaatt tgatacaata ggactctatt ttttccagaa 420
aaciaactcc actgttgaat catattttctg agttccattt taatcatata tatatttata 480
cagatatttc taatacacag actttaagta cagaaaatta agatgtcaga gcatatgtaa 540
tgatttgacc aatataaaag gttaacattt tttcagcatc ttttgttgtt ttcgaaaccc 600
ccgact
606

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<210> 84

<211> 563

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA818796

<400> 84

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tgtacttgac tttagtgggt agattcttag ctgtggcatg gatacacatg atcagaacag 180
tattaaataa ggagaacgtc attgaaaaga gcaatctgtg tgcatcaaag aacattatca 240
agaaagcaaa gaagcaatgt gtataaaacg tccctaatag gtaaactctac atagataaag 300
agaagattgg tggttagaca accagagggg ggaagaatgg agagtcactg agtaatgggt 360
acagtgtgtt tgaaagggga taaagataag atcgtggcct gattttaccc ataaattggt 420
gattctttac acaagaataa tggttagagg aatgagccac aatagcagat attatccaac 480
cattaatgaa acttatgacc acttcttaaa tttttattta tttttttaa atttacttgt 540
ttctgcataa ctttgagtga tgt
563

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<210> 85

<211> 407

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA818801

<400> 85

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agagtaattg cccattgctg gtttgtggaa ttgatccaat tccttgaaaa ataagcatgt 180
gtgttatcaa agcagaattt cattggacat caagtcgtgc cccagtggat ttctcccaa 240
caacaagagg cgtgaaattt ccagagccag caggagtgc ttgcccttc atttctaagg 300
gctgttcctg cagctccagt gtgacatttg cttaaagatg aagccagccc cattctaaat 360

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aaaggtatct ggacagccct tcagcgatga atgttttcct cgtgccg

407

<210> 86

<211> 582

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA818907

<220>

<221> unsure

<222> (1) .. (582)

<223> n = a or c or g or t

<400> 86

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aagctatttc acttttccaa aatgctgttt ctctttgtag accaatctgg ccacaaaagg 120
ctacctgggt aagtattagc cagaaacttc taaatccag tgtgatcttc ttgtggcatt 180
tttccaacaa ataatgcaga ccaaatcaca agatggccac ctactgggtc acatgggtct 240
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tgcacacagg cctgcttcg tctctcactc ggcccatctt ctggtctcct tctcaccac 360
aatcttcacc tgaacagcag tcaaaaggcg cggtcggtag gccgcggaat tatcactgcg 420
catgcgacca ttaggggtccg tgcttctact gccgaaatgg agaatcccg ttccttagca 480
gcaggctccg tatcccgcg cacttgagga accatccggg gatgcagacc gagtacggtg 540
ggctggagaa ctgggagaat ggggggcggn gggcaagact gg 582

```

<210> 87

<211> 612

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA818910

<400> 87

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gcctacaagg acatattcag caccaaataa agattacaa cagccataga atataatcta 180
taaagcaaac atttaattt gcactttgtt tcgcaaacat tttggatttt acttttccta 240
aatgaaaaat taggaattca agatagcttg aatactagag cgcaactgtg accctcagat 300
gttatgtcag gaattgacca atatttagaa tagtgtaatg cctcaaaaga gtaaagaaat 360
acttaatggg aaaaataaaa ctttacttca ccaactctta aaataatttt gtcaccaatg 420
ccaattatca gaatattggt cattcttctt taataaagta tttttagtaa catggtagtg 480
agcgccccga ggccatgcac accaacaatt gttccctagt cagacataac acagagtcag 540
gtgtttttac acaatccctc ccaacaaaaa caaatccacc aaatgccctt tatgccaaat 600
atcccatcag ct 612

```

<210> 88

<211> 412

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA818921

<400> 88

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tttttttttt tttttttaaa tccatctcac acttttattt ataagttagt tctacaagca 60

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 tttaccagct tctcaaattt gcctcctgcc ttcagagact aaggtactac atatacagat 180  
 tttcaatttg tttttactct ttacacagaa aactgacact atttacacag actgtaaata 240  
 gtatcttagg gagccaaatc agagtaaccg tacttgtagg aaatgaactt catacaatat 300  
 aaaagtccta agaattctat agtttatata attatattat ggcaagtctg tgacaatata 360  
 tagtataaaa catgaagtat ttacagttag gtaacaatt acataagggg aa 412

<210> 89

<211> 598

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA818947

<400> 89

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 catcgtggac tcagtgtctg aatatcagct tccaactacg aagtcggcaa ctaaaacggc 180  
 ttaccacacc agagcacagt ttaatcttcc atacagacat tgtacatggc atttggcata 240  
 agacttgctc agaataacat tgcaacggag tggaggcgag aagattgtta tgcaaacaca 300  
 gtgatgaggc ctctactga aagctcacac tccaaggata gaaacttttc cgatagcagg 360  
 ttttcagggt gcagaagcaa tgtgtcgtgt cggaactaag ggtgttctgc acacgtaca 420  
 aaacagttgc atgggtgcct gaactctagt tggcaataat tatccacatg ccagaaagtt 480  
 cctcacacaa gcaacagagt gccacaaaag ttgggggtctg agaaaacatg gcctgtccag 540  
 gattccctga tagacactca tttttcaacc acagaatgct gtgctgacag cagccagg 598

<210> 90

<211> 491

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA818951

<400> 90

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 atctacatgg gaaccctggg cccccagcct ctgttcttgc ggtctcctga ttccaggcca 240  
 gggctgggaa ttctctggaa aactttctac agggagcaaa aacacagaga taatgctgcc 300  
 cttctgtgat aaagtcagag gggtttccaat cctgcattcc tccttcaacc ctggctcaag 360  
 tagggccatg aaaaatagct gggctctatt gcatgtttca gaggcattaa tttttcctgg 420  
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<210> 91

<211> 498

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA818996

<400> 91

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 tgggtcttct ttgagtgtga ctgttcgggt gaagacaacc tgtccttgat ggctatccgg 180

atccacagag aagtacccaa ggcgctcaaa ctggaacttg tcaaaggggt ttgccaaagc 240  
cacagagcag tccaccaacg ctccctttaat cacttgtagt gatgccgggt tcaagtcact 300  
taggaatcca ccaggcactt cgacagggtc ttcagggttc ttgtgctgga atagtcgctc 360  
atagaggcga atctcacaca ccagaggctg tgacaccag tgaataaagg ccttgggctt 420  
ctctccagca tcagctcgtc tacagggtcac ctccaagcat tccacacagc cactggagcc 480  
cctgacaaca tgctgcag 498

<210> 92

<211> 188

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA819021

<400> 92

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ccacttttga gtaagacaac tgtagacagt tagtaactgc cagcatttag gacgccagtt 120  
ggtggcacgt gtcaagttcc acagagtcct gccttgccgg gtgtctgaat gtacagctcg 180  
gggtcact 188

<210> 93

<211> 318

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA819041

<400> 93

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actgtaaatc tttctaaatc tctgcaatgg ctctaaatga gggtaagtga ataagtggaa 180  
gtgaaggaga atggagggca ggaggtggag ccactccagg taccaacca cccagactcc 240  
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<210> 94

<211> 583

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA819055

<400> 94

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aactattcag aaaagaagat aaaagatagc acttcctttt gccttgctta taggtatgct 180  
agttggtttg ggctgttggt tgattttctt ctttgaatcc ttatatgaca actgctggta 240  
tgatgaatgc tggtccttag gtaggagact ttcagaacag ttccagctca ggggtgcatca 300  
ggtcctgtga tgaagtacat tgtgccttct gcaatatgtg tttatcttcc accaatgcaa 360  
tgcaagtaag tagtctctta ggttctataa gacaaccctg accaacaact tacaagagta 420  
tttctcttgt ccagtattac tgtatttatt aggtgatcgt tgggtgttgg aggggacatt 480  
atcaaccttt caaaacacat gatcatttat gaagtctact aagagttgta acttattttg 540  
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<210> 95

<211> 281  
 <212> DNA  
 <213> Rattus norvegicus  
  
 <220>  
 <223> Genbank Accession No. AA819111  
  
 <400> 95  
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 gttgaataca agagttaaac taatccacac cagctcaaaa accctgtgga gacttagttg 180  
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 acgaaaaggg taactatgag agtcagtaca aatatgctag a 281

<210> 96  
 <211> 555  
 <212> DNA  
 <213> Rattus norvegicus

<220>  
 <223> Genbank Accession No. AA819140

<400> 96  
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 aactcaaaaag acaccagaga cagctttttt tttttttttt ttttttttgt tttttttttt 180  
 tgtttggttg ttttgctttg tttttaatag gcatgcaaag attaaagtag tgaaataaaa 240  
 aataaatgac cctagattgg gcaaagaaaa ccatctttat gaagaagaaa tttaaatgct 300  
 ggatcaaaaa atttaaaaga cctggcctta tgggtgtgtg tttatcggtg atttaaaacc 360  
 aggcgaagtt ggtagtaggc aaatttttaa aaagtgtatg agtagcgatg gtattatttg 420  
 aggtaaacat tatgtattca cttctgaaa tctacagtga tcttaacttg tgctttcaat 480  
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<210> 97  
 <211> 444  
 <212> DNA  
 <213> Rattus norvegicus

<220>  
 <223> Genbank Accession No. AA819172

<400> 97  
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 cgatgaaact gctactgaat ttagagaggt gatgtccgcc tataagagca tttaaagagt 180  
 attctgctct gctcacacgt cagtgtgca aactgtgctg caggtagcc tcagcagtcc 240  
 tgacaatttg aaaaacaaca gcaatacaac aggccaccag atttgctttc ttcctaagaa 300  
 actcaattat aaacacttga agtaataggt gagaaggcag atcaagcatc accaggttta 360  
 agagcaagaa aggaaaaggg cagaagttgc cctcaaatca ggtagacatt aaatgccaga 420  
 aagaaaataa ctcacaaaac tatt 444

<210> 98  
 <211> 351  
 <212> DNA  
 <213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA819199

<400> 98

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cgaaattggg ggttcaaggc caggtcttgg ggcccttttt cggccatcta aaaaaaacat 180
ccacctaaagt ttaactgggc ttgaaccggg acaaaaactt cacttcccaa ctaaaggcca 240
cccaaggggaa aaccttgtac caagagccca ggtaaaaatga cttgggtgaa agccaccctt 300
gaggagggtt gtgaccaatg ggcaattgga acccaatcaa gggaccattt g 351

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<210> 99

<211> 621

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA819306

<400> 99

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gtatgtagaa cactactggat tataaatcaa caacacaggt ccacttgggt aaaacgtaga 180
aataaaaaaa agaaaagaaa aaattaagtt aaagtattag cacatataca gtgtcagaag 240
gggtctccgt caatcaccat tttgaattaa ccgttttctt ttctgaatgg cttgttttgt 300
tccacgaaaag ttggactttc agaagttgct tctaatacaca tcataagaac acagtactcc 360
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ggaggtctgag gcttattctg ttttatgtgc ttctcacaca ccgagaaatc aatcacagga 480
atacatttta catcctggat actacagtga aactcggcct aaatatcacc tactgctaac 540
acatgacaga atgttttagct attcaaatgc ttcagtaaag tgtatcttac caagagaaat 600
gtgttttgaa tcaaaacttt a 621

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<210> 100

<211> 336

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA819333

<400> 100

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aaacacatct ggacctgaag caggcacctg aggtcgtagc caccaccagga aaaggctgtg 180
ctcaataggg ctgcaaaatg attttggttc tggggactga aggaggacac actgatacag 240
aatcaggggt atgtgactct gagcgaccgt ctgtcacctg gaccaagcat gtcaaatggc 300
gttttagggga gtttggtcgg tgagtcaaaa gacttc 336

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<210> 101

<211> 402

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA819383

<400> 101

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ggactttaca agactcggaa gccagtaact acaaaggatg ataaataaaa tacaagcca 120

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gtatgtttgtg gcaaatttcc agaaaacaca ctgaaaatct ttacagttca gaactgcttc 180
actttataca taattacaaa ttactataca gcgcttggtg tgaacccgac tttttactta 240
ataggcttag tacagaaatg ttcatacagc atttggagac aacaagaaca gaggtatagg 300
tgtatcctgc ccaccttctg tacagcctag gcctcagggg caaacctgag acgaacccgc 360
tgggttaggc ccatcccagc aggtggcaac caaggcaggg ca 402
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<210> 102

<211> 529

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA819530

<400> 102

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acgtggaatg gcctggtgag acgaacagtt tcaatacctg gttacagagg cacaaagtca 180
tcctgatgac accggtcact gataaatccc cagggacact gggatcggag aagaccgggg 240
tgccctgggt ccagcgtgct ggagatttcc ttcaaagtcc tgattttggc aaaagaactt 300
ggcaagctag caagcgaact gttcggccgt agagcgtgac gagggagggg ccttccacgc 360
ttgggtgggt gtagtaggcgc ccaacgcagg gaacaatgct ctctctcat ctgtctgcac 420
gcctaccctt cccactacac ttctaggctg cagagagcta gcccggggtc tgtagaggca 480
ccttcccaa gcggtgccga cctaactaac ctcaccaaac tcctccca 529
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<210> 103

<211> 485

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA819672

<220>

<221> unsure

<222> (1) .. (485)

<223> n = a or c or g or t

<400> 103

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aagcacaaat caaaccaaca gaaagatagt tttttttaa aaattatctc cttaggctc 180
tgtctttaac ttccccttgt tcctatttct atgagagaga ccgtaacgca caggctgagg 240
agacacactg ccaacaaggc taatgtgcac cagaccgaag agggacagct cggctttggc 300
cagccctctt cctgcaggat accaatccta tgtttgcgtc aatcctgacc tgctcagatg 360
aagcggcact caggcactag tcagccgttg accatacaag aacagagaac actggagtag 420
acagagcttt ctccaggaat gctgacaggc gtcnctccct tttgagaagt cctttgcttt 480
cctga 485
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<210> 104

<211> 597

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA819709

<220>

<221> unsure  
 <222> (1)..(597)  
 <223> n = a or c or g or t

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 atactgagta gtgaggtcac agtcacgaag acatgggttc acattatgga ttcaatagac 180  
 tcaagttctg aatgcagtat taagtgacta caactgaaat gctaagtgcc acgtttgaaa 240  
 ttgccagtct aattgagggg cgaagtgatg aatcagagaa agatttggca gcatgactca 300  
 ggaggacagc acaggggaaga gaggggtactt aagagcagta aagggagaag gagtcaatca 360  
 actcgggtgca gttgcgttca gtcgagtcag tgcagtcagt accgttcagt tctggagtgc 420  
 agagcagact ttccaagcca agagaggcct gtttcaatca gtcagtttgg agacgggttt 480  
 gaaccagaag agctgagttg aaccagccag ccagagttta gcaagaacta cacagggtga 540  
 gcttantcat caatgagcct ccgaggcaac aattacatcg ggtgcataaa gttactt 597

<210> 105  
 <211> 478  
 <212> DNA  
 <213> Rattus norvegicus

<220>  
 <223> Genbank Accession No. AA819744

<400> 105  
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 cttacaccca catcagctct gaaaggggtga acgcatctga gccagaagcc cagtctctcc 180  
 aggccatgca atctgttcac tgatgggaca gtccctcaaa acagccacac aaagtagaca 240  
 gatacagtct ccccgaatgt tcccgatccc cctgaaaaca gagtgaagtg caatgaaaac 300  
 tggttaattaa aaagccactt gggactggca gtaacattta atgattgaga aaatgcttaa 360  
 aataatttta tgtatcagag acaaactgct tgctactctt tcattgatct taggaatttc 420  
 ccagacacaa aaatctccat tatccagctc cattaaaatg agaagaaaaa atgtgcta 478

<210> 106  
 <211> 463  
 <212> DNA  
 <213> Rattus norvegicus

<220>  
 <223> Genbank Accession No. AA819767

<400> 106  
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 aatacatgga gaactacact ctgcctccct agacgcaaat ctggaaccca gtcctctaac 180  
 ccaattcaaa cctttgtcac cagacacaga cacggttggg cagttgctta aaccgttacg 240  
 ttacacgtag ctctttatga ctgtactgtg gaataataaa gctgaaaata ctgttgctga 300  
 tttcatatag aagtctttta tataaaaaaa ggcgtataat acatccacct agataaacca 360  
 actgaaaata tttcttgtta gtttaaatgg tttgagagtt ccactcttct attgttaatc 420  
 gggaaattat cagcctgggg gtgccaagct gctgctgatac aaa 463

<210> 107  
 <211> 615  
 <212> DNA  
 <213> Rattus norvegicus

<220>



<223> Genbank Accession No. AA819812

<400> 107

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tcttagtgta tacatactca catcaaaata taaagaacac atgaacgtat accagagtca 180
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aaaaacccat caataatgat tttaaccaa ctaacttcct gtgatctgta gtaaccatta 300
tgatgtctgt atgaggtagt aactaaatta ttttgcccat gtattaatac tctaaataaa 360
aagaaatatg gaagtcataa taaaataagg ccaacagaag taaaagtcca tgaaaaacgc 420
gaccatgtca ctgtggaatg tgacggctct tcagtgtgac tgaaatgtct agtgtggagt 480
cctcagcagt gccagtctct cctgtgcaca ctgtcgcctt ggcgacagct gcagtgttct 540
accacggtac cgccattctg tgatttacgt tttgcaaagg tgtgtcctaa gcacagacaa 600
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<210> 108

<211> 593

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA819816

<400> 108

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tctcgttaca gtacactctg aaatattttac agtatgatag acttaaagca gagaggaaat 180
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ccactgtgga gccttttagtg gtgaggtctt ccgatctcag tgatgtcttc aacatacacc 480
atcatttttag tggaaaaaca attgatttgg tgaaatgaga ttcattttcca gacagggttag 540
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<210> 109

<211> 254

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA819840

<400> 109

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aaagtacttt gaaaggtgat ggataaagag actcggggct gctcaggaca ttgagaataa 180
gtgacggcca tgtactcagc cctaaggaag atgttcaagc tacctgccct ctctaagcat 240
cagagaacaa ttca 254

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<210> 110

<211> 413

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA819853

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 cagctcgtg taccacaaag acccgtagcc gatgggatcc acaacagggg tcacgggtctc 360  
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<210> 111

<211> 447

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA819854

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 ttacaaaatt tcacatgcac ttaagagata aaacatataa gatgccaac ctgtgtagt 240  
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 acaagatcac ttaactata agagcagtc cagtcaactg atcgtgacat atagaaagta 360  
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<210> 112

<211> 520

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA819879

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 gtgcccaggg gaaggtgtcc aacctgggtg atagtcagca ctgagtaggg cctacaagag 180  
 tgggctgaat ttctatttct aatgcaggag attaaaaaca caagtgtgag cagttttaaag 240  
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 ggtaattttaa aatatctgtt tctctcaggt tatacataat gaccatagac aagatgggtca 360  
 aacagtgtaa acgctgggat aagagtatca gatgggtcaat gggccgaaat cagtgggaatt 420  
 tagaaaacac gttaactcag acagacagac agacagacat acacacagac agacagaaag 480  
 ttttaaagta tagcacagtc taatcatcat cagaatcgga 520

<210> 113

<211> 586

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA848378

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 gactttggga tgtttctgt ggatgatgtg ggtatgtgtg tacatatata tacatacttt 180



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cagtgttgcc cacctccac ccctcagggg ttagaaaagt tgattttacg tagtgccatg 240
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tttggatgaa cgagaaaagg ttgcctgaaa cagagtagta gatgccacgt gattgactcc 420
tcagactggc aaagtccaag tgcaatgctt atgagttgtt ctgcttcttt cttatgcaga 480
atttcatttg tatgatc 497
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<210> 117

<211> 591

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA848758

<400> 117

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gataaacacg gcatactcat tttcaggaga cctgagtga tgcggcta t gattgcttct 420
tacaataagt ggcaaggctc agagaaaaag atgtttgctc caaggcacc agggatact 480
gcttttcaga aaaattcaca gagaacagac taaactagag aattagatat cagtggaga 540
acccattac cgtaactagc caagagatta cgtcagagga gactgcaagg g 591
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<210> 118

<211> 580

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA848782

<400> 118

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gaactgggag aactctgtag gtcaggggtc gcctcctgct tggggcagca gaaggctctg 180
cagaaatagc tctctttcag ggtcataatg gctcctagaa cacttgctt gttgtgctgt 240
aacaataaaa ccctgtttac tgtctcctgt cctcttgcaa aacagttgtt gtcctcaagg 300
cctccaggag ctggcaggag gccctcagtc ctcttctgag agctgaagat cctctagctc 360
atcctgtggt ccctgagcca gctgccacag ttcactcaga tccaccctg tgtctgtgtc 420
tccatcctct gaactgctgt cactatcttc cttatgttct tccctcctgac ctccttcttt 480
cattcctctg tgagattcca ggagcccagg aactcctctc tcaaagaagt ctgtgctgtc 540
ctctccctca gaactgtcca actcaaacag gtctttta t 580
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<210> 119

<211> 595

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA848826

<400> 119

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tatcagagtt cacaaaaaaa gcataaagtg caaaagatct gttaaattccc cagagcaatg 120
```

```

actaatgtta cctcagccag ggtacatgcc acctgtacat agcacactct acataaagta 180
taaaatggca tatatctgaa aatactctat ttgcttgggt gaattattgt agttataaaa 240
tagtttttaa tctgacttgt gtaggaaaag acacacgcca tgttttttta agtctgtggg 300
agaataatgt ctataaaatc tattgagaat cccaatctgg tcaaagatgt gtcattgggc 360
agtgggacca acagcaccca ggtcaagccc tggttgggaa gaatccaagt ttggctggag 420
gaaggagctg ggggaggccc tagttagggt tccccagaga ccgttagtgg tcagacctga 480
aggaagaaga gaggcaggat ttgaaggttc aaatcccagt ggatctggga ggcgggttagg 540
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```

<210> 120

<211> 401

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. AA849222

<400> 120

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accctgctga ttgacccttc tgggcctgct tacggactcc tctcaaaggg acagccagcc 180
cctgttcctg ggaggaggct cctcggacac tggacagagc tgagcttggg acaccagaga 240
gaacagggca cccttctgca ctggcttcca gaaaacgggt cttcccagg acaccagtgt 300
gatgagagcg agtctgagag aagaatgaat tgacctctat ccttcccctc accctcgacc 360
caggaggggaa agggcatttt ctttttcacc tttgaaaggc g 401

```

<210> 121

<211> 268

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. AA849365

<400> 121

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aatatacaaa agtgggtccat tcttcagacc gtgaaaatgg caagtcccgg ccagatctag 60
ggtgggggat gggggtgcc agctgcccc agtcgcctgt cctccgtgcg atgtctttgt 120
ctggatcttg atccctgagg gaggcttgag gttctgaaca tggatggcag atcacaacca 180
cagttctggg ctcatctgga ccaccagtcc ttgggcctca aaagttgaac tcctggaccc 240
tcaagtccca acgactttcc ctttgggt 268

```

<210> 122

<211> 395

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. AA849426

<400> 122

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ggcagtcccc agcacacttc tttattgaat gcaaaggat gaacgtgtaa ttacaagaca 60
tacaaacaaa gagcctatgc tgatcccctg ggggtgggta gtaactacct ttcctgggac 120
atgctaaagg cctgctgctc atccagttgt cggccctgct tttaacaggg tctgttgtcc 180
atggcaaagc agctgccttt ttgtctgcac tggacagcag cagcagcagc agagtctgca 240
gtgctctctt cccagtcctg gaggtgtgtg gtccctgtcc ctgcccacat cctgcctctg 300
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cagcccagac ttcatcctgc agtaactact gtacg 395

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<210> 123  
 <211> 535  
 <212> DNA  
 <213> Rattus norvegicus

<220>  
 <223> Genbank Accession No. AA849497

<220>  
 <221> unsure  
 <222> (1)..(535)  
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<400> 123  
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 gttaactccc ttggttctag gaccagcata tcttaatctt tcaacgaagc agatgatatg 180  
 gaagtcctct ggagactgaa gccacttgcc tagtctcttg agcaaatgaa cagacactgc 240  
 tatcatttga caaggaattc agactcagaa cagagacaac aaagtatttt aaaaaataat 300  
 tattcataga cttgctaact gtcacttata aaggctagt caggccana gtaagaactg 360  
 gtgctttctg agaaagctga aaaaggatta gaggtgccgc ctgcttctag gtacgccctc 420  
 acttacactc tgcatagcta actctgggta aggacatggg gttcaagtct ctgttctggg 480  
 cttggagatc tctgtagcct aagagagtat cagtgcattg ttgacctgag ccctg 535

<210> 124  
 <211> 501  
 <212> DNA  
 <213> Rattus norvegicus

<220>  
 <223> Genbank Accession No. AA849767

<400> 124  
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 cacaccagac acaagcaagg acccaggggc actgagcagg atgggatggg taggacggca 180  
 agtctctggc agccgatgac aaccgcgcct tctcaggaca ctggattagg aaccaagaaa 240  
 ccaagcagta tcgttggatc cttccagaat atctaattct cacatttgcc gaggggctag 300  
 cctcaaacc accgtgtagc tgagattcca ggcattgtct accatgccga gctttaccgt 360  
 ttgcctctga aaaccgggac agtaaccttt actttctaga gctgcctgaa ggggaaatgc 420  
 cacagagagc aacacttacc aaagtactca acagagctgg cacacagagg tatctaatta 480  
 gtaactcttt tttgtttttg t 501

<210> 125  
 <211> 582  
 <212> DNA  
 <213> Rattus norvegicus

<220>  
 <223> Genbank Accession No. AA849796

<400> 125  
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 tcaaagtcca gagttaggat gccaggctg aggcgtgccc tccgacttaa ctgctaaatc 180  
 atgtggggag tgatctttga tactttaagt caacttcaat acagaactat cctttgggta 240  
 ctccatacag ttaggggaact tgttttctac acttaggcat gaccctcaa ttaaaatgga 300  
 agattcttat tatgaatcaa gagactcatc tacacgggtg gaggatccac ttcattccat 360

ctctgattta gtctttctga atggactggg ttctaaccta gactaagtac aggcctgaaa 420  
 cttcaacagc catcaggaac catggagcgg gccatgaagg tgcttcgaag ggccacagac 480  
 tttttcaacc tgggacagac tgcaaacctc gtgccacacc ccatatgaca aaaagctgga 540  
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<210> 126

<211> 196

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA849898

<400> 126

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 accacatgta cccaagcagg acaccaaagc gaaaggaaca aaggggaaaa accctcccc 120  
 atttctggac acacggaaac caaaggagga gcctggggac aaaaccatt cgggggacaa 180  
 ggaggagcgc ccccc 196

<210> 127

<211> 504

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA849917

<400> 127

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 ctccgagcat agacagtctt ctgtaccatg gtccatgta ggtatttagt caggagagtg 120  
 aagagttaac agatggaaaa ggtctctggg gcagtccatt tgctgagacc tcaagtggga 180  
 cagggcagtg agcagagaca tctgaccagg gcaactgtgg taaggtaggg gtgcctcaga 240  
 cttggccctg ctactctcgc tcctaaagaa ctataccctt caagcctcag catctcacac 300  
 cccaatccct caggctctgc ttccctggatg cccaactctc aacagggtctg ccaaccacta 360  
 agacagacac agctgctatg tcccacctct cctcagcagt taaaaaggaa gagactaacg 420  
 gggagcctcg gaggtttact tactggtcac agttcgtat gatgccatca tcagtgtaaa 480  
 caatgttgct ttagctgtgt aaga 504

<210> 128

<211> 513

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA850038

<400> 128

ggaatataac acacaaagac tcgaccaaac agttcagtta ttataacttt tacagtatac 60  
 agaaagggtg cacttaaaaa aaaaaaacct tcagtttttt taaaaacaca aagtgtaaac 120  
 tctaagatag tgaatcaatc acgtcaccta taagtgccaa cagtgttatt ttgtcatgct 180  
 gatttcaatg gtacttttta aaaaggggga aatatcaaca attataatac aaagggttg 240  
 catctataca aacagatata ggattcataa caattcaaga actaaggggg ggggaccaa 300  
 ttcaaattac aaaagttcac tttttattca aaacctcagc ttgtgtcttg gacacgttcc 360  
 ttggctgcc aataatgcc cagttccttc tcttaaaata ttttttttaa aaagctaggt 420  
 ttgtcatggt atgggggtgg ggtggggaag ctaagtgttg atgtgatccc tccagcttgc 480  
 taattagagt gctcaacttc tcctaaaaaa aaa 513

<210> 129

<211> 419  
 <212> DNA  
 <213> Rattus norvegicus

<220>  
 <223> Genbank Accession No. AA850195

<400> 129  
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 ctgaccaagg agtaactcta ttgcctttca aaaagccctt ggaagggtac cctcaatcca 180  
 aaagaccatt agctctcctg ttacagtttg tgtacaacac cctcatttga aagtgcgcgc 240  
 tctatcttaa cgaaaacatc ccagaatgtc catagatgtg agtgtatcat aaattatatc 300  
 tacgttttag aaatggaata aagtaccaat ctcagtttaa atactaaaat agaaataaaa 360  
 aacaaaaaaa caggctttaa cgttattact tgggatgtct cgttacaccc ttcctaggt 419

<210> 130  
 <211> 492  
 <212> DNA  
 <213> Rattus norvegicus

<220>  
 <223> Genbank Accession No. AA850378

<400> 130  
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 tatatacagt gaagtataat aatctttaat tgggaaacgt atttggtact cctgatctgt 120  
 ttatattaaa actgtggggg aaacgaatat ctcggtgaagc gctacatttc cagtcgatcg 180  
 cacctggcac ggaaagcgtc attgcatctt aggtcctgct tgggtattata agagactaat 240  
 ttgaagtccct aggattcaaa ataaacatca tttggaataa tagatatata catcaaaaat 300  
 acatctagaa aggcatgtgt tagtgctatt aaaaagctgt gtgctcatgg ggaagggtcag 360  
 tcgaaagtta cctggtcata ttcttactcc tcatctccac tgtccatgtc aatgtctact 420  
 tctcccggtg ccacggcccg ggacaggatg tccgccaatga gtgcttcctc tagtttcttt 480  
 cggacttggt gg 492

<210> 131  
 <211> 617  
 <212> DNA  
 <213> Rattus norvegicus

<220>  
 <223> Genbank Accession No. AA850480

<400> 131  
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 ctctgaaact tttaaaacta tatgtaagat aaaattatgt tatttcattt tccaaccag 120  
 aaaaaatata ttgcaagtta gatctaaaaa aggaaatcta aattgcctca tagagaaagc 180  
 cagtgcgtga gcaaaatatg tgactcaaaa ctaaaagaaa cccaaccaag aaatagattc 240  
 cacaaaagtc agttaatcct ccaattttta ataaatgatc tccaaggga aaataattcc 300  
 actaccacag caatttggtc aataaaaagca gagccacact cttaaaggga aattctacca 360  
 tatgtaagaa aaattaataa atctttttaga aaatagaaat ctccatgttg gaaaacaagc 420  
 aactaaata cttcatgttc actctgttag aagttcgaac ttctgtccac atatgcaagt 480  
 gacatgaata tgaatgcaca taaaaacaag ctctttgact attagttcag ttgagcctca 540  
 ggagatctaa ggagcttcaa aatccaagga tagactgggt ccaaagcaac tctcctctgt 600  
 tcctttcttc acctgt 617

<210> 132  
 <211> 531



<212> DNA  
 <213> Rattus norvegicus

<220>  
 <223> Genbank Accession No. AA850618

<400> 132  
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 ccatcaacta tctttatcaa ataaaaatatt tacaccattt ggttttctaag gagaaaagct 120  
 cttcacgcta tcaccatggg gacatcgtct gagaatccgg taatcatggg agcatcttcg 180  
 tcgtcctctc ctagggtcatc cccggaggag aagatggcgg agcccagcct ggagctgtag 240  
 tggctgttgg caaaggcagt gaagctgctc tgtaagcggc ggtgcttcgt gtagaggacg 300  
 gcaaagccga ctcccaggct cagcaggatc aggaacaaga taggaaccac cacggccgcg 360  
 acgtcagtag acctggcagt ctggaccact gtggcatctc cacctgagct cagttcgtca 420  
 tacagcagca cggcaggctc cccgcagatc tggctaccaa agagacatcg agcctggacc 480  
 gtgaaagtgt aattgtgacc catcttcagg ttggacactt taaagaaatt g 531

<210> 133  
 <211> 580  
 <212> DNA  
 <213> Rattus norvegicus

<220>  
 <223> Genbank Accession No. AA850738

<400> 133  
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 gcttctctga ttaaacaataa tacatttcat agaaatgatt ataaaatgca tcgcagatag 120  
 aatgttttat acttacagat cttatggtac cctaaatcat tattaataaa aaccagccaa 180  
 cccatactgt aagtaaagtt agcagaccac cacttacgct ttattgtagg agaaagacat 240  
 ccaattacca tgctgaaatg gggttttagag tccaacacag acatcctgct tcaaagctcc 300  
 cactgcactt acaaccccag gaacggggct ttccttccca tattacattt ctaggacagc 360  
 tttgggctga aagattagtt ttgggtttcag agcgaatctg atttagtatt tcaatgtcac 420  
 acctcaaaga ttcctgacgg gaggttgggg agaactcact caattacgta ctagtccacg 480  
 gcgcaagaca gcacaacaca gatgggacat ttaattcact ttaccggaca tgctcaccca 540  
 accgaaattg ggaaaattta aaggcacaga tgaatagaaa 580

<210> 134  
 <211> 438  
 <212> DNA  
 <213> Rattus norvegicus

<220>  
 <223> Genbank Accession No. AA851050

<400> 134  
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 tttttttctg tgcagcccag ggtaagctca aacaactcaa aatcctccag ctacagcctc 120  
 atgagcgctg cagttctggg catgcgtggc ctctcccggc ctagcttgct agttttatat 180  
 gatggtaagt ctccatctat aaatatgcaa gtgtacagaa tacatgtgtg cttttcgacc 240  
 tgggtgtttct gtatgggaaa gctgccccga gaggatgcta cctctgttct tctgtcttta 300  
 gtgatgttta aatggtttgc attattttca tgaaatgaag tgcgttaagg ttaggagact 360  
 gaggtcggtg aaggagaagt ttcttgagga tgactgtgtg caagagggaa ggccacccaa 420  
 gggcccttcc ttctgagt 438

<210> 135  
 <211> 494  
 <212> DNA

091800-0082660

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA851233

<400> 135

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gcaacgaaga cggtaggtac tcggggatcc agctgaggag agatgggtca ctgcagctgt 180
actctgtaag cacctattag caacttcacc ttggcaaagg gtgcttccgt caaccttata 240
aacaacttat tggggccagc aacagggctg aatgaataaa caaagtgact gtccagaaaa 300
acaggtagct ggaatttatc atttagcacc acggcttgca cactgcatgg tccacaaagc 360
cgagcaatga catctttacc caagaagttt gcatggaaaa tgaagaggag gacaccagat 420
ccttcaggca tgttctgagg gggcatgtaa ttgaaatctg ttgagaaatc gggccactca 480
cagagccgat gaca                                     494
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<210> 136

<211> 719

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA851329

<400> 136

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aaatactgaa aagattgatc ctacccgtaa ggaatgagtc agggtaaagg aaaggcatgc 180
agggcactaa ttgatattag caaatTTTTgt tcaactcactt agtcagcagg tcttaaactcg 240
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cttttagtac agattttaac gtcctacaaa ggaatgggtc accagaggaa cctttacaca 360
gacccactga cctagacctg cctctgtaga ccaggggacct cttaaatcag agctctatct 420
gcctccagag ttctgggatt aaagggtgcac accaccatac tcggccaagt cttgctatta 480
aatcatacta ctatgttgtc taattccatt tcctgaagggt gtgttggtat ggacaacatt 540
ctgtaaataa actatccaat aaattacaga ctctgcttat tctgaaagggt tatggtttca 600
ggagaacatt cacgggtgatg gaatctcatc aacttgcggt ttcacattca gttcttttga 660
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<210> 137

<211> 574

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA851343

<400> 137

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agcacatgat ggcctcctct atgacctgct ctttgacctt agctccaaca agggcttgac 180
aggccactgg aagcatggac ctaacctgct gcatgccatc tccacaggat gccgcctaac 240
ctcaggtgac agcacatcag gagctcacgg gcgcgctcac acgggcacgc tcacacaggg 300
cctgtgcagc acaagattat ggagtcacat cctttgatcc taagctggcc tggctccctc 360
atcagcctca gggaggtata ggaagatgaa tataggccca gctttctgag cttagctcaa 420
ccacagcttc tggctaagct ctggaccacc aggggctgga gccttgacc agggatggga 480
tagtccgttg ctccgtgtag tcagctgcac acgcactgcc accatcgagc catggcccaa 540
tgacaggatg gctgtgtcgc cttccttgat cagc                                     574
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<210> 138  
 <211> 545  
 <212> DNA  
 <213> Rattus norvegicus

<220>  
 <223> Genbank Accession No. AA851803

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 ttaaagattt tatagtgttt acaaatttga ttctaaaaat ataccttatt tgttctaaat 120  
 gaataacatc tgaaagacag aataataaat atagcagtgc gctcaccact actgccacta 180  
 ggcttggtga cagcattct gtatggacta ctctggtgat gttcacactc tccgcctgag 240  
 aacacagagc atattacact ccagtgtaca agacttcagt ctgacagcat tgctctacaa 300  
 gaaagaaaat taaaatgtct acttgacact gcaggggaagc atggggcacac gcgcacacag 360  
 acacgtgtct gcattttctc tcacactcaa acagaagcac acgcacacca cagaagtcag 420  
 aagaatttac ccttggtgtgc cagacaatta acaatttcag aaatgcagag tgagtggaga 480  
 gtcggccgat acacttaacc cgtaagtaca tggcaagggg tggtaatggg gtgcaaagtg 540  
 cgctc 545

<210> 139  
 <211> 294  
 <212> DNA  
 <213> Rattus norvegicus

<220>  
 <223> Genbank Accession No. AA851814

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 cacaatgaag tccatcagtg agttgtcagg ctgcagtgtg gggattggga catctgctac 180  
 ctggatgatg ttgacttcta ggattccatc tacaattgtg atggtggctc tgaagtaacc 240  
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<210> 140  
 <211> 591  
 <212> DNA  
 <213> Rattus norvegicus

<220>  
 <223> Genbank Accession No. AA851953

<400> 140  
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 tgcagtattt gcctgtaatc cagtgaagac ggtgtaggaa acagcatcac taaatgaaag 120  
 acagaatgga ggggtgaactg cgaaggctct gcatgctcta ctggcttcca aaggcattca 180  
 gagggatcat aaaaatgttg gacactttgt tctcagacct taattcagat gctgcctcag 240  
 cagattggct tttgggtttta gatgcttttag cctggaggcc agaggagaaa atatcatctg 300  
 tatcatcgct aaacatggac ttggctgtga ctttcttttt gggcttttct ttgggtttca 360  
 cagtcaagtc agcgaagata tcaatattat catcaaataa gttgggttcc aaagtctctc 420  
 ctttctctct ttttttttga aaaggcttct taattgcttc cgtagcaaat atatcatcct 480  
 caaagatgtc ttgagttttt gacacaacgt cctgatggct gtcagatttc cactgattct 540  
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<210> 141  
 <211> 538  
 <212> DNA

<213> Rattus norvegicus

<220>

<400> 141

<210> 142

<212> DNA

$\langle 220 \rangle$

<400> 142

<210> 143

<212> DNA

$\langle 220 \rangle$

<400> 143

<210> 144

<212> DNA





<220>  
<223> Genbank Accession No. AA858588

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ctatgatccc caaaagtgtg cttgtgattt cagcaactta caaaggggag aggaaatact 180  
gagaaaggcc actatttaaat aatgaaggag tgaagggtgc tctaaactgg gctccaaatc 240  
tccgtggtgg ttgtcattgt tacctcccct tgtatcatca agttggtgcc cttttctgag 300  
ccttatatct ggctctggag tccgtgtgca ccccaatcgg tgttcgggtg gctcgttcat 360  
gggataccaa agccttcctt acaaagtggg ctttctttct gtcccttctt cttggggagaa 420  
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<210> 151  
<211> 354  
<212> DNA  
<213> Rattus norvegicus

<220>  
<223> Genbank Accession No. AA858704

<400> 151  
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actgtacaca acctagtcgt gggacacata agccagtgag gtgaatggag cagtctggcg 180  
cggccccagg agccaggatt ccagccgagt tttgtcactg tgttcattta agctgttttt 240  
ttccttttct tttttaaaat cttttttggt ttttttagat ttagtttttt ttcatttttt 300  
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<210> 152  
<211> 526  
<212> DNA  
<213> Rattus norvegicus

<220>  
<223> Genbank Accession No. AA858716

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cagaattcgt ttcagtctgg tcccaggaac tgcttctcat gttaggattc acgtttcagt 180  
aacacgtatg cgcccatcac agccaaaaga gcgtacttga acttaggata gtcgttcatt 240  
ataatggtga ccatgccaac atatggtaag aaccctcgag ctcttcctac cacgtccttc 300  
ttctccagcc agttctggcc ttctttgtac aagcctcgat catcaacttc attagtatct 360  
ccttttagtca gaaacttgat gtctccatta tctttttcat gaaccttgat tactctgtga 420  
actatcgga tgtctcttcc ttcaacttta aaaacaacta tttcaccagc tctgatggga 480  
tcttcccggg aatttgtgag gaacagcaga tctccctgt gaaagg 526

<210> 153  
<211> 539  
<212> DNA  
<213> Rattus norvegicus

<220>  
<223> Genbank Accession No. AA858758

<220>  
<221> unsure

<222> (1)..(539)  
<223> n = a or c or g or t

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 aataatagaa attggaccag ttcttaagtt tcttcttcca tgtttcttgg aaaacagtgt 180  
 gtagtcaatt cttcttcac cgtggcttca ctgtggcacc ccatttccag tgattgatct 240  
 tctctccaaa caggtagagg ctggcactca ggatgtaact ggctgagaag aagagaataa 300  
 taccagcgg gctgagggag gcaaacacgg ggtacacca gtttccggtc tgaacgtagc 360  
 gccaaaggat cctgataatg taagcaaaat tacaggcacc cagcangctg agtcctagct 420  
 tcttcgatgg atagtgtgt ggtctgagaa cggtttcagc cagggaaaag ggaaatatgg 480  
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<210> 154  
 <211> 554  
 <212> DNA  
 <213> Rattus norvegicus

<220>  
 <223> Genbank Accession No. AA858760

<220>  
 <221> unsure  
 <222> (1)..(554)  
 <223> n = a or c or g or t

<400> 154  
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 acctgtgcac ggtgatgccg gggtattcgg cctggagaga aggggtattt attttttttt 180  
 tttaaaaagg aggcataatat ttttacaact ttgtttctta aaataaaatt agcagctctt 240  
 ccaaaaatat tttaaaatat aacaaaagag ttcgaataac tctgagggtta tgggaaactc 300  
 aaatccatgg acaatttgggt tagctcaaca gaatatgggt ggcaggaact gctctattat 360  
 cagcactttg aagatcagca natttgaaaa tcttaaaata ccctttcaat tttttaaact 420  
 taagaataag tttgataaac ataaaaagac ctcaaataga tcaacagata aatgcaaaaa 480  
 ccaaaaatcc aaattcatgg agaagattca tcagagtatc attgctaaag ttattgaatg 540  
 actgaaaatc cctt 554

<210> 155  
 <211> 384  
 <212> DNA  
 <213> Rattus norvegicus

<220>  
 <223> Genbank Accession No. AA858852

<400> 155  
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 gaaatccagg caggttatga acaggactgg aactgcccct cctgacatct ccagggaagg 180  
 cttaatgccc cctccattat cttgtgcctc tgtgaaatct gtcagtggag atcttgtact 240  
 tctgtgttac ttcattcaatc ctggcagcca ggcttatccc agagttgttg ctgctccaac 300  
 agttcggctc tccttcctgc ttccttgctg cttccatagc ttcagcagag gtgtctgcaa 360  
 tctccatgac tgctttcaac aatt 384

<210> 156  
 <211> 467



<212> DNA  
<213> Rattus norvegicus

<220>  
<223> Genbank Accession No. AA858910

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 tcaagacata catctgaaaa agccaccccc cattagaagg aatcactgcc aaatacttct 180  
 ctgtacacac acttcaatga cacagtggct tttcccagaa cacagcattc acattaccga 240  
 aagcagcaaa attcacttta aaaaacaaaac aaacaaacaa aaaacaagaa acaaacgaca 300  
 acaacaaaac caacaacaga aaaaacgaaa cagaaaccag aagtgagaat cacaaaaata 360  
 aataagtcag cacattctgg gtctgtctgg cctgagaaac agacatatcc atcatagtct 420  
 ggttatcagg aacagcttca aggctcaggt ctctgaggtc cccttga 467

<210> 157  
<211> 507  
<212> DNA  
<213> Rattus norvegicus

<220>  
<223> Genbank Accession No. AA858926

<400> 157  
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 ttgagcagga gccctgcccg gcgttgggtg ggtctctct cctgtggaga agctccaact 180  
 tcagaagagt gtttgagcca tacagagatg atagggggaa atctccttgg tgatagaaaa 240  
 taaccaaaagc tcggaaccac ccgaagggcg ttcacagttg ggatgtggga gattcatggc 300  
 actgccattg cattctgaag caaacagcct taaaactctg cagtgactgc taaactccac 360  
 cttctggctg gagagaggtt tgcttagcat cctaaaagca atgcaaaaa gctctttctc 420  
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<210> 158  
<211> 511  
<212> DNA  
<213> Rattus norvegicus

<220>  
<223> Genbank Accession No. AA858953

<400> 158  
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 cctgctgagt gtgcgagcag cgcagacggc acccacggaa aaggcagga tgacttagct 180  
 gtctacgggtg gctaagtga aagtcttttg gaacagattt actttttgtt actcaggaat 240  
 tacatcaaag aggaaagccc taactgcccc ccgttcttaa actaaaggct aaggggggtg 300  
 gaatcatttg ataaccacc atccaaatca cgttcattgc aaactgtaat ccaattcccc 360  
 ttcattaagt tttccctgtc aaccataacc cctcaggatt atacacactg tatgagttca 420  
 gaaaagatta atgtgaatgt aaggggtatg tattcgactc cagcatcttt gtcacatagc 480  
 caatttcttt taaatgtctg ctataacaga t 511

<210> 159  
<211> 353  
<212> DNA  
<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA859085

<400> 159

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ttagtgaaaa ctgaatatgg tctgcgtgat ctattagggc aatagtaaaa ataaatgtct 180
gtgttacata agagctttgc ataaaaatcc ctgtattgtg tgtaatgtat gatatcgtgt 240
acgcgatgtg tgatataaaa gttagcaaaa tgaaaaataa aacagccttt gtggattagg 300
cagaaaaata tcaaaccgga tgccttttcc ttatttcagt gacacgtggg aag 353

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<210> 160

<211> 376

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA859130

<400> 160

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gtccttaaat aaagtgttca cagagtaaaa atcagaacta ccagtccttc cctccaacac 180
aacagagcac aggcacagaa ccgatagtcg atgagcccaa ggagtaagga ggaggctgga 240
gaggacagca gaggctaaaa gaaaaggaca aaactcagtc tcgggtccaa ggggtcagaa 300
cagtcctaagt gggcagggtc cggttgactg ctagtcccgc ttggccttct tcttgtcact 360
gttgccattc tcttca 376

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<210> 161

<211> 581

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA859150

<400> 161

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taattttaag ttttagtata gactaaagca tccaaaatac tgtggtacgt atgtagctac 180
gaacatacaa acacgttgat gcacagcgtc cgttctattt aaataggcag tcagcatttc 240
aattcataaa agaacacatg aggaggctgt atcattaccg atggcagaaa acgcaagacc 300
agcggctctgt acacaaaatg tgtgagacag atgtgtcaag gtggaatgta caaaatcttc 360
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tcaggaatga taagaaagaa cgttagcaag ggacgcttcg ttgatagcca aacgccccat 480
gttgtaaaagc aaaagcattg aggttaaagc tgtgttgctt ttgaaaagta atggaagtgc 540
cgtacattca ttggaacaag atagctgatt attagtctct t 581

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<210> 162

<211> 606

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA859230

<400> 162

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ccaattctta acacacgtac ccaaactctg aagagccgta gtgttcatgt accctaattc 180
tgaagagcct taatagtgtt cacgtaccaa aacgaagagc tacatattgt ttttctgtga 240
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aaccgaatgc tcacaatgct cagttccacc aattcacaaat tttatgtcac acacagaaca 360
tactcaaaat caccatcttt cacagcacat tatcacaaact gttaggaaaa tggactgcc 420
tgaccacaga catcacagtt ctgacagggc gaggaccaa gactggcttt cttacaaaat 480
ggttctacta gaaacacggg accagatata actgaaaata ttccagacac gaatgcatga 540
ctgagacccc aaattgccat ttagtatgct ttgtactgta ggatataaaa ctagccccct 600
ctacgg 606

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<210> 163

<211> 550

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA859241

<400> 163

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cattgggtgat gataattcct agcaaatgtg attgattttt acttgatttc caagtagctc 180
tcaggcatct aacctgtgaa acagtgactg tttacataca gggatgcaag gggacataag 240
aatcagagca gaaaggaaac aacataaggt acttcacgaa aataatgttc caagaactga 300
aaagcctcga aggtgtacaa gaatccagta ataacaaact catgttcaag caggattaga 360
aacacagcgt taaaactgga ctcagtgcg tgtcttcacg tgcaaacctg ccaacactga 420
agaggatcat cccattttcc tgtgactagt caatacatta cgaagttctt ttgcaaatca 480
ctctgtctgac aagtaacaaa actgcactga aagcctttac tagtcctctt cccctccctt 540
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<210> 164

<211> 563

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA859327

<400> 164

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acagcagaca ccggcaagtg tccgtccctc tgcccactgt tcatgtgcac acagaacatg 180
aatgcgattt gaaatctggt cacgggtgata aagttacaat ccgccagcca cctctgcagc 240
ctgacgtcta cccacatgtc tgacccgcga tgtctatgtc agcagtttcc ctcttgcaat 300
cattttaaatt tcgtttcctg ttaggaacca gcaacatatt tttttttata tttatctcct 360
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taaagggtaa aggaagaaag tgtgatgaat taaaaaaatt attttttttaa ggaaagataa 480
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<210> 165

<211> 556

<212> DNA

<213> Rattus norvegicus

<220>

**06978**

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aagacagatc	atttttacag	accaaaagagt	cccaccaaag	tgataaagga	cacccgaaa	180
ggggcaggtc	aagggggctg	ggtccctccc	ccggtgacac	tgtgttggtt	gtgatgagac	240
ttataaaaaa	caaccacta	ttagaactat	gagaaacacg	gagatagttt	agcaccacc	300
aggatcctgg	agatatgtta	gcacttacgt	ggaccctac	tgcatccaat	gtccttgtct	360
ccgtttctct	gctgagggtg	ggagggggaga	agctggggga	aggactcctg	ctgaccacgg	420
taagctggct	ggggataagt	ggacactagg	aagtccctgt	gatttaggtg	agtcccggtg	480
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<213> Rattus norvegicus

<223> Genbank Accession No. AA859342

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tcttggcatg	agttttggcc	taaaatat	tttcaaaata	aagtctaata	agctgatccg	180
cgagtaagcc	gctaagcata	tccacaggtg	agtcaatcac	cctgagcaat	taattgcaaa	240
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<213> Rattus norvegicus

<223> Genbank Accession No. AA859348

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aggagctggg	tcagattttg	acagagggtg	tgggaagggg	aaggggagaa	gaaatcgaca	180
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gacagtggct	cctaagaaat	ctgcattgta	ggagaagaca	atgaaagacc	ctggccctgt	480
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<213> Rattus norvegicus

<223> Genbank Accession No. AA859350

57

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atcagaaaca gtgcccagct tccttactca gggatgtatc tgaggactca cgccacctcc 480
tgacttctgc ccaaagggaag agcgttccaa atgag 515

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<210> 169

<211> 561

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA859362

<400> 169

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acatctcaaa gacgggttct ttgttcctgt aactctctgc ctatccctca aaacctaaaa 240
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cacttgaatg gggatgtgtc caggaggagg atctgggtcca gctaggcctg gcttgccttc 480
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<210> 170

<211> 548

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA859536

<400> 170

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agctgcaatg aaggcagact tttttatttt tcatttccac tgaccaataa acagaactac 240
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tgatgagaga atgtttgtca ctcccaaaaa tatctggaga ggaagaatgt aggggttgga 360
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<210> 171

<211> 533

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA859585

<220>  
 <221> unsure  
 <222> (1)..(533)  
 <223> n = a or c or g or t

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 aggggctggg tagaagagtc ctggagtttc ccataatcct tcgcaggaaa cagcaatgct 180  
 ggcagataag gaggtggagt gaggcagggc ccttcaaaca acagggtggc gggccaaggg 240  
 gcttggggct cactctaaca tgcaaagtcc agctgcccc aaaaactaggt tgccttttgaa 300  
 gagcgacata cgtataaata cataagacac agctacacgc acacatgcgg agaaggctct 360  
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 gccaccaagt gattctctga aacactccag gtgggtggggc caggcaggta agtcttcgtt 480  
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<210> 172  
 <211> 400  
 <212> DNA  
 <213> Rattus norvegicus

<220>  
 <223> Genbank Accession No. AA859633

<400> 172  
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 aagtcttctc caacagcgag aaaaatgtac agttactcaa agctgattct gccagtgggg 120  
 ctggggacag aagtgggcag ggtaggggtga aaccacagag ggggatggag ggtgggaggg 180  
 tcagggtcct gcctgtcaga gttagggccgc ctgcgtcctg cactctgctg tcagggtggg 240  
 gggaatgatg aagggttggg ggtaagggag atgggctcca cactgctcat tccccactg 300  
 tcatgtgtct gaagggcagg ctgcacaagg tggctgtcag tttgtctctg aggaagtctg 360  
 ctctcttggg gaaggacagg tgtcagcagt ctgaaggagg 400

<210> 173  
 <211> 545  
 <212> DNA  
 <213> Rattus norvegicus

<220>  
 <223> Genbank Accession No. AA859645

<400> 173  
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 tgcgttggtc ttccacatcc tgggattaca aaagtgtact accttgcata gcttccaaca 120  
 tgttttttaa agtgctctga aactttcttc accagaatat tttctctgag tgtatgtgag 180  
 tgaagttata catatgtaca catgcataca gaagccagag gtcatgaatg tcttctcag 240  
 ttactctcta tcttattttt tgagacaggg tgtctaactg aatctagagc tcacagatgc 300  
 agcttctggc tggccagcaa gccccaggga tcttgatgtc tcctgcttcc cagtctggag 360  
 tggcaggcac aactgcatg tcccgttttt tatgacagtg ctgcgagtgc aaatccagg 420  
 ccttgtgctt gggtagcaat cgctccatct actgagcatc tctccgacct ataaccacac 480  
 tcttgcgcta ctacagctct catggcaaag gcaaagaaca ccgatcttt ccgtcaacac 540  
 agatt 545

<210> 174  
 <211> 283  
 <212> DNA  
 <213> Rattus norvegicus



<223> Genbank Accession No. AA859837

<400> 177

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gactcatgtc ctcccaggag agcgtcatgg atgtccaagg gccttacacg gagctggaga 120
atggaacgac ctgctttcca cccacataaa ctcctcaat gtttcggtea tctcctagat 180
agaggaactt ctggataaca gcctcagaaa tatcaccaac gaaatcccca caaacagat 240
caatgggaga gtccgatgct ctgggggttga tcaagagggc atcaaaatcc ttgccgacct 300
caaagtttcc aatttcacga tcaagcccca gggcttggct tcctccaaga gtggctagtc 360
tgaagacttc tttgaggggtg aggtttttct cattcacctt attaattaag aggacgttgg 420
aaaccatcac tgctcttcgg atggcgtcaa gcattggaata ggagtaacca ccagccacat 480
ctgtcccaag ccctatcttc act 503.
```

<210> 178

<211> 534

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA859933

<400> 178

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agatttttaa agactggatg gttgccttgt aactttttcca ttcccattta gaaagataac 120
tagaagcaat gacaaaaata accacttaaa ataggggatt cttccccga gtttcttgta 180
agcgtaatgc caggcattcc actcttcac tcagaaaaga aaaataaaag gctttggagc 240
acaccaacct ttactcagat ggacaaaaca tctgcctcca gttctcacgt tagaccagga 300
cgcatatcca gagtggttg tctccatcca gcccatgctt gctaaagcag ccgagtaaat 360
cccaaggtea gtcccaaccc caaccttcaa cagtatgaac tgcttacacc tcttatgaca 420
caagccatgc ttcggcgga gggctgggtc agacaccct catctcccgt ggggtgaatca 480
caacagcagt catgtttgtg ttctcttccc tacagttcag tgtgcaaagc catt 534
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<210> 179

<211> 380

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA859938

<400> 179

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tgttttgctt tctttttttt tttttttttt tttttttttc cttttttttg gtttgttttc 120
atttttataaa ctcaagctca ggggaagcttg tttttgtcct ggaaaacaaa acaaagacta 180
aacaagctt tcatagtatt atttgcaaac ctgacctcat ttagaaagag atgtaattgc 240
atggctagaa cacagcttct agcatgaatg atgcagggtg gactagtggg actaagagga 300
gacgatgcac tgttgacaag attataatct gctggtggcg ttgctgaaaa aaaaaaaaaa 360
aaacctttgc ctcgtgccg 380
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<210> 180

<211> 425

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA859971

<400> 180



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gtcagtttct cttcttgctc ttgccagtga ctttggacgg cgtgagggtt ggagctgtag 120
cctggtacag agtggaggat atcttgttga tgttatacag accaaccatg gagaagatga 180
atcaagtggg gacacagact ctgtggatga ggccatatgc gaagagtgcc aattcttatg 240
gaaacgcctt ttacagtcat cgctgatgtg ctcagcagat acagtcttga aggtccggag 300
gcctcttggg gtttctacat atcccacaat agccacaacc accatgggtg gggtttccac 360
aatggtcaca ggctcgacaa cttcgggtctt attcacctta gatcctgggc ggtcaacttc 420
ccgga 425

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<210> 181

<211> 499

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA859980

<400> 181

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gttcatcatt ttggggaagt caaggtagac gtttgaagca agtaccatcc tgtctggtca 120
agcagagaaa taaatgcact gaaggcgctt gctgctcact ttctaacaac ccagaggcac 180
acttgttggg acggccaatc ttctgactag aatagctaga atacctaccc caccacctca 240
gcttagaaga ggtcactgaa tccaatttcc attacaggat tggctctgat ttgatcaatg 300
ggaaaccaca agacaacaag caagcagggg tgtttgagcg aagagcctga agttcaaacc 360
agaagccaca tccccattcc ttgaatggat catattgggg gccgtgcata acggtgcatg 420
tctttaattc aagtactcag gaggcacaga aaggtggatc tctgggaatt gaagccaagc 480
tcattctaca aacgatttt 499

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<210> 182

<211> 591

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA859994

<400> 182

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gcattgaagt tgcattgact gataaaagtt gatgcaaaat gagaaagaaa caaaaaaaca 120
aaaacaaaaa aaaaaaaaca aaaaacaaaa aaaccagcaa aatgtttacc aaaaaactca 180
aacaaatgag cagtgcctgt tcaatttcac agtctctgtt gagttcagtt gtaaataatgt 240
ttcaaatgac attttcttgg gaaaaaaaaa atctctacaa cattgtggaa tgtgaggggc 300
aactgtctcc cgggcatagg cgtctcaaag ctgcagtaga ttgcgccttg atcagggtgt 360
taatttgtgc ttttatcacg gagaactttg agcatcctgg gaagaggtgc cccacacctca 420
atgatatttc tctgagaaca actttttagt gactgtgttt ctttagatac atttagtaca 480
actgtagggt acgagtagtc agtgattgct tgctagctac acaccagggt tgatccattt 540
taaaactttt ggcattttgt cctcgtgggc cataaataca gaaccttgtg t 591

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<210> 183

<211> 417

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA860010

<220>

<221> unsure

<222> (1)..(417)

<223> n = a or c or g or t

<400> 183

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caagggggtg ggaggtgtag ataatccagc aagcatctcc ccatcaggaa attatgtctt 120
ggggccttga atacagaggg gaggtgcaga ctgcattcag tggagaaagg ggaagcccag 180
ggggagctga aactgagtag ggtcttatga gaactggtag caaggagcct gggtaaggcc 240
tctggcaagc aggtccccta agtctgtcaa gatgctgtgt atgggggttca gaaggacagc 300
accctaaaac agagaacaaa cttgccctac tttgcttcct accttgggtct ctatatgcat 360
tcatgaccct gaatcccatt gctgttaacc tctgaggtct aattccttan ggactgg 417

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<210> 184

<211> 308

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA866240

<400> 184

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tttttttttt taaattttaa ggaaccttt attttaaccc aggaatgggt acacaatgac 60
acaagggatc aaaaattggt atatgaaaa aataatacaa gtggatttgt gcaaaaaccc 120
caaaaactgc aagtgtcttc gggatcttaa aacaaaattc aggatgggtg ataaagggaa 180
gggactgggt aaaaacctga aggggatttc aaaaggggaa acattttaa ccaaaatgcc 240
cgatttatcc aggaaggaat gaaccaaacc tggaaaatgg gtggcaaaaa ggcaaaacca 300
ttcaaaac 308

```

<210> 185

<211> 493

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA866276

<400> 185

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tttttttttt tttttttcat ctttatattg agattttttc tcttaaaaaa aagaacatta 60
tagatgtgag ggggtgggaa ggatgactga cagcaggtgc tatagaaacc caaagctcca 120
gaaaatttaa aaaaaataaa atatatatat atacatttat atatatatat ataccaagta 180
atgcatgtga gtcccagaga agcagaaagc agcagcaaga agcaactagc acacaaggac 240
ctgggttcat gtacagcaca cacaagccat tccaatcctg ataaccacc ccaagcccag 300
ccccacccc caagaaaaga tgtttaagaa acttccctct taaatggggc tgcacaactg 360
gggtactgtg gcacatctgt aatctcagca cctggacggg ggagacgtta agataagggt 420
tcaatggaag ccttagcgac acaattaagt ttgagaccag cttgggctac attaagaaca 480
tctccaaagc tat 493

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<210> 186

<211> 519

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA866426

<400> 186

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ttattttttt tttttttgga agtagaaata tttattcaga atataagaac gtttgtaaaa 60
tattataaat gtctctgtat aaataaatgg cggttttttt tttaaacaat tctatatcaa 120

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ataacacaaa ttagctatatt tacagcagct aaaaactaaa ggcatctgga aacattttaa 180  
gctacaagtg aatctaaaac tgacaaggta tagtacagtg tgtagtagcc acttttaa 240  
gacactttcc atacaagcag aacagtactg acagatgcag cagacagatg tgctttaaga 300  
acagtgcatt caagcaggat tttctaattc aagtgggtata aaaaacattt tcaattaata 360  
aaaaagttaa atttcatgca aagtaagtta atatgtctaa aagcaaatta gaaatagaag 420  
tgaacatttg tagttgttgc atcaggaagg taagtgtccc aacaggagca ctgcagaaga 480  
acgtgtcgga ctctacagaa tcccttcac atctcaacc 519

<210> 187

<211> 301

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA866435

<400> 187

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cacgtctggg atgacatcat gtggcatttg aactgtctct gtgcccagtg ctctcagggg 120  
ctacagtggg ttggatgtga ccagggaatg ctcccgtgt ctggggtagt accacgatta 180  
gagacatcgg aggcaagcac aaatcttcaa cttcaggga atttattcgt ccagccatat 240  
gctgatactt ctgaattttg ggcacggacc ttcagttcct acttgctgtg catcttctcg 300  
a 301

<210> 188

<211> 534

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA866454

<220>

<221> unsure

<222> (1)..(534)

<223> n = a or c or g or t

<400> 188

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ccttctgcag gctgatggaa ggaagggcgc tgcccttcat gtggactgtg ctgtggacgg 120  
atctgactga gaggagcccc agtaccagc agaatggagt tgagaagcca gggcgctcac 180  
taacagagca ggggacaagt ggcctcctta gaaggtgtgc atgttctggg tgttctgagg 240  
taacaggcct gtccacatgg cctgcatgtc cattgatggc ctcccaggct gctagtagaa 300  
gtgaggctgt tgctggcacg acgttactgc aagcagcaac agagtctcgc tatccacaaa 360  
gctgagcatg tctaccactt agacatgcag actccttgtg tcgcagagcc cctgggtcac 420  
cagcggaggt atcacctgnc gggcgaggc atgcgatcgt gaccgttccc tccaacttag 480  
tcgaaacctc ccgctgccgt ggtgctaaaa aaaaaaaaaa aaaccctcgt gccg 534

<210> 189

<211> 504

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA874889

<400> 189

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tacaagagga atgctaaagg ttattttacaa gttgtttaca gaatgaacgg gtgggggctgg 120  
gactatcccc agtggatcag aacccacaga cacacagcca tggtcacagc ctgacatcca 180  
agctcccaca caccgacct ctactagagt cccagaggag tgtgggaacc taaggggcct 240  
cgtggagcat cccaggataa aaggacactt aagcccagag aaagcgggta tgtgcctgaa 300  
gtcacacagc atagctacaa cttggttccc gggcttccca tttctatgtg cgggctaaca 360  
gtgaccagca agagtatgcc cacggggatg agcatctttg gcaggaggag ctgaggacac 420  
tctatgaggc accattcacc tagatgccag gagcacctcg gtctcagtcg tagagtcca 480  
cttcaggagc cactgcggaa accc 504

<210> 190

<211> 536

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA874928

<400> 190

tttttttttt ttttttttga aataaacaca acacttcctt tattatataa gtttggcaaa 60  
cagcacaaaa atccagcaac atttttaaca tgtaaaaaag tcaaagtgtca aacagtactg 120  
agtatagttt gaaacattag aaagaatgag tgcagagtta ggattctgaa gctagcagag 180  
caaggcttgg tttctgaaca tgtacatgaa acacacatta aaacacaaca acataattta 240  
tctttacaaa acccacagcc aggcaatagg aaagcacatc agtggggaag gttctggccc 300  
acgtgtgttc actgagtcct acatatggaa gctacatcta ccctgaaata ccatgtgcac 360  
agggccaggc aggggaaccga ggctgctact gaagttaaca attatttgag aataataatg 420  
ctcaattaaa tccttctgta tagcaatttc tattataata atgaatttat tccgctgcaa 480  
atctgagaag ctgagactta tttgttggca gtataaaatt tctgaccagt atcaaa 536

<210> 191

<211> 443

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA874941

<400> 191

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aaggtcctca ttatggatcat tcacagctca cttatggctg tgcccccgct ggccctgaca 120  
catgagttct tcttaccgag ctggtatgtg gagtgtgtta gttttgtgag gacctcaca 180  
gaaccttaaa gctcaggtag gcttacagtc ttgtccatgg cctttgtgtt cttattggct 240  
gtaaacgtct gtctgttccg aataaagatt tgttcatgag gcctctgctc tgaatgggca 300  
tctgctcctg tgtggtccga gcaggcttca tcaactgtttc cctcaaggca tgttcttgtg 360  
tggtctgaat ttagtttttt tccatgtgaa gaaatatcac ctttggacce aataaaattc 420  
ataacagggt aaacctcgtg ccg 443

<210> 192

<211> 516

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA874999

<400> 192

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tggtccaaga tatgttgggt ttttccttct tcttcagatg atggatagat gcagccaaaa 180

tctatgaacg cgtgtacttg ccccaaagt gcagcataaa cacagaagcg atgaacagaa 240  
gactcatcac cagtactggg acagggccaa ctttgagccc tggggaatct tctgtgtaga 300  
atcgccacat cccccagtc cctgcagagg tgggtcgggc tgcactccgg gttccgcagc 360  
tggcattttt tctctgccgg acagtggatc ccgccgccc tgcggccact gctttgctag 420  
gagaacgccc agaggagccc acgttggtgg cactaggcgt tggacccggc atgctgatgt 480  
ctaagaacag taggcacaag agatatgaag atgaaa 516

<210> 193

<211> 580

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA875032

<400> 193

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aagtaggaaa gccacaaga caacaagaac ataaaacgag aacaaacccc gagggaaaaat 120  
aagttttaat atgtttcttc ctccatagca gcaagctcta aacagctttc cttagtgcga 180  
atactgtagg cttgtgtcac acacagtaca cagaacaacg caacacacac caccacagat 240  
gcttctgagc agagatactc ctcaaaaatt taaaactata caaagatttt ttgagcacgt 300  
ggtcctgcct ggagaattcg actagagaga cctccttagg accatttcac cattactgta 360  
aaaacgggac aaaagggtccc cagaaaggaa attagaattc cccatggagc cataaaacct 420  
tgtacaactc gtttgccctc aggggtctaag agcaaatttc actgcacgtc attgacatat 480  
cccaaatcag gatgcataaa gcttgagtct ctacgatata ccaaaatcag atatatatac 540  
aactccact gcaaaagaaa ccctgatacc tagtctttat 580

<210> 194

<211> 561

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA875041

<400> 194

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aaacataaaa gtagcagaaa tagtttacgg agccaacaaa gaacttcaaa aataaaacaa 120  
aacgaagcca tcaagagcaa agcaaaccag aaacaggga gagaaaaata actatgtact 180  
tggctctcca aatgccagtc catccgaagc cagcctctac tgagggtctc agtggtcaag 240  
agggaaagca gtctccactg aggggcactg tggcctgttc tatggcgtct gaggagaact 300  
caggctctag ggaaatctct ggtccagcct ggctttccct tggacatctc tcttacctga 360  
gacacagccc aagctggagg ctgggttcag cttgctctta gggtccaggc actccagttc 420  
gtctctagtc cgcggtggcc gctcctcgaa ggtctggcca gaggcaaact ccttctcatc 480  
gaaactgcgc ttagctttct gtagtgagc ctcccgctgc agcagcttct gctccagctc 540  
ctgaatggtg cactcatcgg t 561

<210> 195

<211> 549

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA875047

<400> 195

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aattcattga agatagagtt aaaaaaatcg tagaactgaa gaagaaagtc tgtgggtgatt 120

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cagataaagg atttgtcggtt attaatacaaa aggggattga ccccttctct ttagatgccc 180
tcgcgaaaga aggcacgtga gctctgcgca gagccaagag gagaaacatg gagaggctga 240
ctcttgcttg tgggtgggata gctctgaact cctttgatga cctgaatcct gactgtttgg 300
gacatgcagg gcttgtctat gagtatacat tgggtgagga gaagttcacc tttattgaga 360
aatgtaacaa tccccgttct gtcactttac tgggttaaagg accaaacaag cacacgctga 420
ctcagattaa ggatgcaatc agagatgggt tgagggtgtg caaaaatgct attgatgatg 480
gctgtgttgt cccgggtgca ggtgcagttg aagtggcact ggcagagggt ctgattaaat 540
acaagccca 549
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<210> 196

<211> 547

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA875050

<400> 196

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aaatgaatca cagtggaggc ctataccgga cccctcagg aactgtaagg actgggacgt 120
ggacactgaa ctgacaacac cgtcagcatc tggacatgcc caggcagctg tgctggcctc 180
acggcaccta ggcccttgccc ccttgccctc caccattcat tccccaatgg gaagaccaga 240
agttaagttc agaatagaag ggggagagggt ggaggatgct gctggctctg gtacctgccc 300
catgactcaa gcccaggcct actcccagggt ctctgtccct ctctctgca gggacctagc 360
aggaacaçga ggagggggacc tagggaagggt gtggctggat ggcactctggc ttggagaagt 420
tggcagcctc agataaggca gctgctggag gaactgtcag gtgcagctgg gacctctccc 480
cccaagatga cagctgaatt ggcttcctgc tggcttggag ctccagacct ctccactggg 540
catacat 547
```

<210> 197

<211> 335

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA875097

<400> 197

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gcatctcagc tgtgttcagc tacagtacaa agaacaatgg aatagcacca ggaatttct 120
aaaaagttca caagatccgt gacaccttcc tcttctgac attcttctcg gctaaccaag 180
caaagaaagc agagccccca ctttccattc cttcagctac tgtccacca gcggtctgat 240
tttcatccga acggccctca gagaataatc cgctcctctg aagggaaccc agaccactcc 300
gttctctatc tcatagggac tgttgttcct ggggt 335
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<210> 198

<211> 569

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA875126

<400> 198

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tttttttttt tttttttata tataaaatca catttatttg agactgggac tttcgaagcc 60
cagtctggcc tgatctagt tccagaagca ctgattagca gatgtgtttt cctctagctg 120
gctacaatgg ctgcggttca ttctattcag atgtcagaca ataggcacag ctgggttcct 180
tattcaaaat ctgaaggagt ctgggaggag gacaaacaca tagatagaat caagcttagg 240
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ccaggaacca gaaactacgg attgctttgt taaaggccaa ggaggcttca aaagcgaaca 300
cagctggagt ctcatcttcag tctccatttt cgcaccactt cagtgggaagt tccatgaaac 360
agcccgatgg ttctgaagtg ccatcaagtc acttcgagct ccagcaactt aggtttccag 420
gacatcttct agaagaactc gatcatccct tccacgttat ggggccactc acctggcctc 480
gatgccacc tggactcgaa gtagccctgc accgcgcctg taccctgatg acgacggatg 540
cagaaaaggt gagggccgcc ctcgtgccc 569
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<210> 199

<211> 438

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA875225

<400> 199

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aggggcctga ccctcagcag gcagcggcgg ttcctagatt agcgtaagg agctacattt 180
aggttaatgg agcctggggc caaggcttca gggcagggcc ctcagtgaac ttggcagttg 240
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ggatgggtgt aaacaggcag acacactcaa ggcacggaat cactggaaa gggctggggg 360
cggggggagg gatgctgggc aagacctgac agttttaaat aggtttctcc aaaaagtgtt 420
ctagatttgc aattttcc 438
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<210> 200

<211> 540

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA875253

<220>

<221> unsure

<222> (1) .. (540)

<223> n = a or c or g or t

<400> 200

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acaagagttc atacaaacat tactttgaat atccgtaaca acttgagcat gaatgttttg 180
gttggttggg tgggttgggt tctgttttgt tttgagacat agcctcaagc tgcccaggcc 240
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aggattacag gcgtgtgcca ccacactgtg gtgtctgtct atgctcccag tgttggcatt 360
tccgatacag tctgatttag gacagttcct gaccacaag cctgactctg aaccctataa 420
cacctcactg tanggctggc aaagcaatct agcagaacct caccttcctt acagagttcc 480
tgcacaaagt tcagggtcaat acagaaaacg cttctgatga agcgttcctc gtgccgaatt 540
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<210> 201

<211> 419

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA875362

<400> 201  
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 aacattcctt tttacaagtt cagatacata tttttccccc aagtgcacaa tactctgtgt 120  
 accacattgc tgctgtctgt tgttggtgta gatgctcgt gtgtgggagg cggtagaagg 180  
 cagatataaa tacagtattt tgagatcttt ttcttttgca ttaaaaaaaaa agccatccac 240  
 gtgataatta ttctctgaaa gttccaactt acatagaaca aagttttgag cttgtttgtc 300  
 tcaggaagct gatcgagaa ctgggcttct agtccttcta gctctcaaag gattcctagt 360  
 cgaacgaaat aatggcagaa agacagagtg tgccagcttt gagacagggt caatgtcaa 419

<210> 202  
 <211> 512  
 <212> DNA  
 <213> Rattus norvegicus

<220>  
 <223> Genbank Accession No. AA875495

<400> 202  
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 acaaatgaga cacagggtag gaaacagcac gtcacttcta aagcaatctg gaaggggggc 180  
 gctgaaggca cagcactct ctaggagaaa tctgcggcca cttcagagtc ccaccaggta 240  
 agaaaatacg agcttgcat ccttttccgt gtcctatgt atttgagaag gaaaacaaac 300  
 agaagctgag cgcccgagga gtccctctgc cttccagagc tttagattgt taaaagggtc 360  
 taagctggag cgcccgagga gtccctctgc ctttctgta aaacaaattg ctctaattatt 420  
 ttacagaaca agatagaaca gggttggttt tctgaagaag ctgaaacacg aaggttcact 480  
 tctttcccat tttacgtgtc tcctaaacct gc 512

<210> 203  
 <211> 450  
 <212> DNA  
 <213> Rattus norvegicus

<220>  
 <223> Genbank Accession No. AA875531

<400> 203  
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 aaacaggact tcttcggaac cacggggagg aacgaaaatg aggctggcaa agaaacgaat 180  
 gctgaatcta gagaggagag aatctggggc aagtgttctt cattccttta gttggggata 240  
 aggtgaacga gagggcgcgt aagtcaaat aagaatccca ctactgcac atcactatgy 300  
 aggatcgagt cttctgtaat tcttctagct ccatccacat tctcctagta ggtctgggaa 360  
 gaatagtact agggttatta ggaataatag taatataaat acacctagga ggtctttaat 420  
 tgtataatat ggatggaatg ggattttgtc 450

<210> 204  
 <211> 547  
 <212> DNA  
 <213> Rattus norvegicus

<220>  
 <223> Genbank Accession No. AA875537

<400> 204  
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 gtacagaata ttcataagca aaagatacac catgttttaa gtacttaca agttacaaac 120  
 catttgcttc cttaacattt tctgtttttt ttttaagttc acaacacaag tatcagattt 180



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accattttgc gctttttttt tttgagggaa ggggggtgta tttatcatca gctagatgtg 240
ctcactgtat gctccattat ttatatgcaa ggcccgggtg actggaagtg cagttgtcag 300
gcattttaat aaactggaca gccatttgtt tctgcacgac aaggcatctt tacacaggag 360
caatcaggag aaaacaggaa acagccaagc actctgcact gcaacacgcc accttaacag 420
ctaaccagca ttactcaact gctacacaac tgcgcctagt gcacaaaaat acataagaga 480
agagattaga attgtgtcgg gtaaacaatc ctttaaaaaa aaaataagtc ttttcacctg 540
aaaagtc 547
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<210> 205

<211> 404

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA875620

<400> 205

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attgcaagcc attgtaagca gaaagacaga tacacttcag gcaaggtagg cttttattac 120
attggctaatt gctcatgttc aagtgaaggct ctgggttcagt ctgggctgcc acctgccatg 180
cctgtgatgt gggacagcca gcacccacgg ctttgccggc tttcacgctc ggatagctgg 240
caacaaggca gtagtaaaaa ggagtccaac ttgtcagttt tgagtagcag ctaaggcctt 300
cccgacacag aggacaaagg gcttggtata caatgagatg atcatgacat tctagtcact 360
tgtaggaact ccaccttagt ctgggtccta agttagccca catc 404
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<210> 206

<211> 216

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA891032

<400> 206

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aagcacagct tcttccaggg ggtccccagc agggcattgc ttagcccaaa ggttccgggg 180
gtcaagacaa taggctcagg ccccccccg tttcca 216
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<210> 207

<211> 446

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA891041

<400> 207

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aatagattc aataaaaagt caaacacaca cacaacaca tcttaaaata gacttttagac 60
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tcttccctag tatccccaca ggctgagtag caggcgggcg ggccagctcc gccgcgacaa 180
cccccttctc ccctccctgt taaatacaca aatatattat attcaatatg aattcagttc 240
ctttccagaa aaaaaaaaca tacaaaatac gctggaaggg ggccatgtaa acctcgagggt 300
ggaaggactg ggcgcaggcg ggcaggccag agtccagtgt gtgagctgcg ccccgagacct 360
ctgggcgagt gcccatcgcc tgccccctc accccagtg ggggcgggag cccagccttc 420
aaggctgggg gtgtccgtat ggagca 446
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<210> 208

<211> 412  
 <212> DNA  
 <213> Rattus norvegicus

<220>  
 <223> Genbank Accession No. AA891068

<400> 208  
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 gtgtaaccat ctaaaaataa gacatcccg g aaacacacca actgaggaga aatttataaaa 120  
 tgaattttaa tagagacttt ttaaaatttc tctcattgca atataatgtt agtgatttta 180  
 aaaaaataga aggagattta gcagcttttc gtcgtgtggc aggttggttc tcttcaactgc 240  
 cacaggctga gaatgctgaa caggaaaggc accaaagaaa gacactggcg atgggtgtgg 300  
 actgggagaa tactgtgttc aagcagagaa tagggctatt tacatccacc aactaaaacg 360  
 tctccaaatg tgaatgagct aaacttcct cgggggttg agcgctacct tg 412

<210> 209  
 <211> 513  
 <212> DNA  
 <213> Rattus norvegicus

<220>  
 <223> Genbank Accession No. AA891108

<400> 209  
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 aaatcatata gcttaagaga tacaggggta aaggctctct ccactcttga tcacacttgt 180  
 ctctgtaccc aatagaactt actgcactta ataagacata cagacatttt agtactgagt 240  
 gtattaaaag aattaaacac ttttctaaaa atctttcaat gacaagttgg tacccttttag 300  
 ctaactaaag ctaaaagggtg ggaggtggga aaagggaatt aactagtatt ttgtaaccat 360  
 ttttaataat ttcttatttt ccaaactg cttttataac agaagtgttt tacacttgca 420  
 cagtattaat tactttatta tacatggaag cctgtggtac gctggttaca caatgagact 480  
 gcaaaactacc agtggtagct tcctgacgtc aga 513

<210> 210  
 <211> 474  
 <212> DNA  
 <213> Rattus norvegicus

<220>  
 <223> Genbank Accession No. AA891161

<220>  
 <221> unsure  
 <222> (1)..(474)  
 <223> n = a or c or g or t

<400> 210  
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 gtgaatttat gtacttggtt tgtagcaagg aatttccatg atgggtgtga cctgggtctgc 180  
 gcacaccttt tggtagctag ctatggcttc tgcaggaact tcagtctgca cactgctgag 240  
 aagcctactg tgaactgttc tcaggtgtcc agctgagggc aatgctgagg aagaccagca 300  
 cagttgtcct tccttatata ccattggcacc tangcagggt caagaaacac ggcacagcat 360  
 ttcatacaca aaatacaggg agccaacatt tgacttgatc agtttcagat ttgatattcat 420  
 gttgttttgt tgatcctcca cataattcac aacaggaaga gtactgcaca ttga 474

<210> 211  
 <211> 465  
 <212> DNA  
 <213> Rattus norvegicus

<220>  
 <223> Genbank Accession No. AA891194

<400> 211  
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 atacagagag tagaaacagc aattttttctt aaatataaca ggcaacagag ttgaagattt 180  
 gttttcataa atgggtgtgaa aaagtattca tttatcaaca aggtctgcagg tggccggctg 240  
 gctggctgac tttccaatcc caagtttttc taatataaaag ctagtgtgta actggagagt 300  
 aaagtgggtt tcttgaagat gtttcttcac ttctgcccc aacaatattc ctctgtaact 360  
 ggaacattgt tattatatgt atttcagagt agttacaaag atctttctga gtcacaaaat 420  
 tttgtgcaga cgatatattc cagattcacc ttagcttctg atctg 465

<210> 212  
 <211> 627  
 <212> DNA  
 <213> Rattus norvegicus

<220>  
 <223> Genbank Accession No. AA891221

<400> 212  
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 aacattttcc ttgttcaacg gttctaattt ttataagggt tttataagtc tcatagtcac 180  
 taagcagggt ctttttgaaa ggtaggcttc atgaccatt tgacttcgtg cctttacatg 240  
 acatgacaaa ttatttttatt caaattatgt tttccaaaag agagggttct gtgctagtcg 300  
 tctttgaaag ttttcatacc atttcagaac cacatttgct gggatgaaca tttccgatgg 360  
 atttgggtgc atctgggctt gagagagagc aaatgatgaa gcaaaattgt agaagttgtc 420  
 caacatcttc tgtgtgaact gtgtgaagga gtcaaccgag gacacagcgg cactgcctac 480  
 gggagtctgc tgagccaaac tgtccaacaa ctccaccgag attccaatct gggcaacaga 540  
 tggggttcgc acaatattca tggtccaaa tgggtgctgg cttccttctc cagatttaag 600  
 acctgatatt ttgaagatgg cacttgg 627

<210> 213  
 <211> 474  
 <212> DNA  
 <213> Rattus norvegicus

<220>  
 <223> Genbank Accession No. AA891286

<400> 213  
 gatcaacacc ttttattgggt tcacattttt tttccagaaa aactgtaata aaaatacatg 60  
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 tccttccatg ggggcggaac atttcacccc accaatagaa tcacaacatg attaggcggc 180  
 taccctacac tgtcgttctg atctcagaga ctggcagact taggagaaaa aaaaacaaaa 240  
 aataaataaa taaaactcaa cagtccactc ctttggttcc ctggtctttt ctctcttca 300  
 acacacggat gtggggcgga tctgagggag cctcgtgggg caaggtgggt gccgctggct 360  
 gaataccagg caaaccggtt ccttgaggtg gcccacaaag gtactgggaa acgccactca 420  
 gtactgcagg tggagatggg cagaagggaa gacaagaaaa ctctgcccga attc 474

<210> 214

<211> 484  
<212> DNA  
<213> Rattus norvegicus

<220>  
<223> Genbank Accession No. AA891423

<220>  
<221> unsure  
<222> (1)..(484)  
<223> n = a or c or g or t

<400> 214  
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tcccgggctt ctgggtgtttt gtccctcggat ccagcagttc ccatgtggag gctgcatggc 180  
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ccagcaaggg ctgcctctcc tggagctgct gtttcggggc ctccccgggtg gccccaggcg 300  
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gcanggtac tgtgctgctg tctcctgaaa cacactgtcg cttggccaga gaaatccaac 420  
agtctcgaaa aactgtctca cgtaggcaac gatggcccca aacacagtgg gacttctcgg 480  
gcca 484

<210> 215  
<211> 614  
<212> DNA  
<213> Rattus norvegicus

<220>  
<223> Genbank Accession No. AA891553

<400> 215  
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gagtccttta catggtaccg ggacacatac ccgagcttca agtactcaga gccagccagc 420  
aaagcacagc acgtccatcg cgccaacttg tagctgttgt tcttcaactc agtggcgatg 480  
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acgccatcat gtcc 614

<210> 216  
<211> 493  
<212> DNA  
<213> Rattus norvegicus

<220>  
<223> Genbank Accession No. AA891694

<400> 216  
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ttcttggtta tcgtattctc catttcagggt gtgattaact tcaagatggg ttacagggtac 180  
tataaacttt tttttgttg tcttccattt gttccgagtc aacaaactct gtgaaatata 240  
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cgtaaggaca caagttttcag aaaaggagta cttcaacact acttcaacaa cgacgatagt 360  
 tttttcataa ttatgtataa atacattagt atccaaaggg cgaatctctg tactattttct 420  
 agataagaat gtctctcaat gtgtaactga attacaaatt atagtcttac atatgctttt 480  
 aaagtaatca agt 493

<210> 217

<211> 516

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA891735

<400> 217

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 gcttagtcac actcaggtga ggggtgacagc tcctcctgga ttttggttcc atttattaaa 180  
 aaaaaaaga aaagaaagaa agaaaaagcc acccctcac tcccagccca ttcctcacag 240  
 ccagggtcag aaagcagcat cagtgaaggcg ggttcctcac ctctggttat ctctggccca 300  
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 gaagtctcta cctggacccc ccagaggcct gggagcacc cctcctccc aggaaaggga 420  
 atgcagtgtc tactgggctc agaggggttg cctcaccac ctgacatgag tcctgattct 480  
 cccatctcga ggacggcagg aagttttattg caccag 516

<210> 218

<211> 593

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA891738

<400> 218

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 ttaatcccc gattctggag actaaggcag gcagtttggg ctacaaagtg agttccagga 180  
 cagccagggc tacacagaga aaccctgtct tgaagggaaa aaaaacaaga tgatgaagaa 240  
 gaaaaagaaa taacgtacag tttttacaca ttccatacat cacacacata tctgaagaat 300  
 ctaagcaatg caaaacaagg cctgagggga ggcattgagaa gtaaaggatg ggtagggtaa 360  
 gaaagtgatg tcttcagagc tgctttctcc cctcagtaga ggaaggaaac gtttatctat 420  
 ggcaccgagg attaaggctg ggttggtaaa gaggtgtagg ggtcctttgg gtacaaactg 480  
 ctgttccatg ctttcatgga accacctgaa cgtggacacg gtgccaggca ttgctgagca 540  
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<210> 219

<211> 599

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA891739

<400> 219

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 tgcgattgca cagcgcggcg tacggattga gcagcaccac ctggcgccgt gcgaacgagc 180  
 tgcccagtct cgccgcctgc tcgaagtctc tgcgggcatc gtcgtcccga ccctgaaatc 240  
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acctctccag ggctgtgtgg aggtccccag cttctgctgc cctcactccc tgcaactcca 480
gggccttgga ttgctccaac tgtgcttgag ggaaaactcc atcttcatct cctcctctcg 540
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<210> 220

<211> 511

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA891740

<220>

<221> unsure

<222> (1)..(511)

<223> n = a or c or g or t

<400> 220

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atgacatcat catcctcctg agtttccacc cccttgggtc gaggccggat gacatcatca 240
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aagttcccat gatgtttctc gaagaggcca ggggaaggag cgcgggggtc ggggacacca 360
ggcagcaggg ctctcttcac cctgcgcata cgcagcaggg ccaggagcag caccagggtg 420
agcaggggcca ccggaggcca caggccaggg cgagaggtgg ggtgggggtc ccgggggtcc 480
tcgggagggt ggggccagtg cangagcctg t 511
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<210> 221

<211> 555

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA891774

<400> 221

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cttggctgag aagattcatg cttgatgacc aggggaggcg tgcagcccc caagaagaag 120
gggaaaagaa aaacggggag gttgaaaagc agagaggtgc accttccctt ctgaggaagc 180
aattctgggtc tgggaccagt tgcaaggggt tagtaagaga aacctaagggt gtgcttacat 240
ttttattctg gcaaataaat ctcttaaaaag gctccctcct aggggtgctt acatttttat 300
tctggcaaat gaatctctta aaaggctccc tcttcgttc gggggaacag cacatgtacc 360
tgtgtcagcg tgagatgcaa tgctacacaa gaacgtggca ttgggccaat catgtggacc 420
cctgtgctgc tccaaggga gaggttctgt ttgggtgtgg gataaatcta aacaagcata 480
cactcgtgtt atatgtggcc ttaagggtag gggagcaaaa ggaatggact tctctgtaga 540
gcagctcaag aggga 555
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<210> 222

<211> 636

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA891789

<400> 222  
gaaattttaga aacaagtttt atttaagatc tgaaatacaa ttcctaaaat atcaactttt 60  
cagaaaaactg tggctacaca ataatgcatt gcctctatca tgttagaacg tgcattagac 120  
tcaaatataca aaaccaggaa acaaatcacc atccttcaac aatttgagca aagatagaat 180  
gaatgcctaa ggaacaacaa agatggactt gcagaggatg ggctgtttac agacgtcaag 240  
caccataaaa aaaaaaaaaa aagcacaaat gcgtgggttt ccaggatat acagtaagt 300  
gaaccttttg cactaggaac cagggcatct catcacgtag cattaacaca tattagaaaa 360  
ctgtgtagt tcaaagggat agaaccacca gcattcaagc aatgttgtca actaggcaat 420  
aaaatggtct actgaacttc ttctttgtct aattactgca tacactggta gcaactttga 480  
aatgaggaaa ggagctgggc actcctttta ttttctgtct acaacagAAC aggaaacaaa 540  
ctgaaacata agcctgttt tacatcgaca gttttaaaga acatcaatta tacaatgaga 600  
gggactaaac agaagtgttt acagatacca gacaat 636

<210> 223  
<211> 609  
<212> DNA  
<213> Rattus norvegicus

<220>  
<223> Genbank Accession No. AA891790

<400> 223  
ggagctcttg caaggattta tttgctacag aattgctttc ataccccagc gagctggact 60  
aaggacttct gggcttaaaa ggatttaggt cacttcattg tttcaagtgc tgtgacattc 120  
aaaaagcaat tttggtaggg cagagatggg gttagagtag accatttgcc atgtggtaag 180  
aggcgagaaa aataatcagt aatattaaac gtctaagaat agagaaggaa agaatacttt 240  
aaagtccca tctggacagt ccctgagctg aaatcacatt tatgtgtgaa gagaaatgtt 300  
tgggctgtga ccgtgaagt acagatgctg accttgggct tggctgggtga aagcttccag 360  
acactctgaa tgacaggata tacgccactc atctggctga ttctggcacg tgcctaaaat 420  
gtctcctaaa tcccaactct cctgggtctc tgaaaggcct gtggctcatc gatccccaat 480  
acttcttttt atttttgaga cagggctctc ctacatagcc ctggctgtcc tggagctcca 540  
tgtagatcag gctagcctcg aactcacaga gatcctcctg ctctgtcttc ccaagtgtcg 600  
cccaatact 609

<210> 224  
<211> 591  
<212> DNA  
<213> Rattus norvegicus

<220>  
<223> Genbank Accession No. AA891842

<400> 224  
aacaacacc taatatttat taataaatta gtatacttga aggcattttt ctgatatcag 60  
ttcctcacca ctaagccac ccacacaaag gcagtgggag tctagctctg cattagagtc 120  
tgacaactga gcatcagagg acaggttgat aaatgagaga gcgtagtgtc aaatttatcg 180  
gacaggagtt cttacagctg cagccatttt taacgaaagt ggttgatga caaaggaaac 240  
ccagcaaggc cttgagggca gactggacct atagactatg tgtattgaga gagagagaga 300  
gagagagaga gagagagaga gagagagaga gagaggaata aaaaaataa gagaaatatc 360  
ttttaaaagca aagctgggca taaagtggct ttccaagggt cagcaaagggt gttcctaaaa 420  
gatgaagatc gagttctttg gggggccagg tgtcaagcca ctgaaacagc aagtcctggg 480  
gacttaagga tttcattctc cagcccagag cttagcagca ttaacgggag cacaagttac 540  
aagcagtgtg cgggtgtccg acgagaacca tacagcgagc gatagagagt g 591

<210> 225  
<211> 614  
<212> DNA  
<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA891872

<400> 225

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gagaacatga tgaactcatt tattactcaa atgggttgcatt tccattcaag agcacttaat 60
acagaccatt caagagcact taattgattg aaatttaaaga gaccaattgg catgggactt 120
ttaaaaatac aactttattcc ttttaagtta ttacttaaac tatctagatc ttctacatat 180
taaaatagaa gtgagaaaat agatcttttg aatctagagt ctagagtga ggctaaaaac 240
ctgatatgga attggcatga tcaatccaga ctacggctaa aatgcaagag aacagggtcag 300
gagttgatca aagtttcaaa atttgtcaca tttggtggaa aaataaaaaca ctaaatgcat 360
gtgcctgtga tgatcaaacg gcataatatt cttcagacca aaacatatcc tgaaatcttg 420
aacattcaac ttctgagctc atttctagct cccgaaaggg gggtgcaaaa tccaatggga 480
ttgcatctac agtgaggccg ctctctcact gctgacaaaa tactctgctt tttggcaatg 540
gcaatgataa acaagtagat gatgagaact cccgatgctt tttgagaatc aagggttgct 600
gatcttgaaa atct                                     614

```

<210> 226

<211> 480

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA891884

<400> 226

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ggtacaagaa gcattttccc cccagttccc atccaggaag actgaggtct gaagggtggat 60
cctctttcta tcccattcta ttactgggtg agaacagctc ctaaaatata agtcttggaa 120
cctttgcgaa ttggcttgta aggagtatgt atctgcaaca tgtatggcct gcggcttact 180
caaacatgtc tggttacttg tccttctatc tagtctccac tccttctga gatgagaggc 240
ctgtgttgct ggaggaaaag tggctggtag catttgcttg attcagtga taaagaaatg 300
tgactgggag ccacagcctt caaaagggtga agctagggtt gctgtgtgtg gagtccatag 360
ccatcctggg ctacatgggt tcaggccagt tgacacagtg agaccagct ttacacaaca 420
ctttattctg caagcacagg tatgataaat gggaagattt tgaatcctgg aactggttgct 480

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<210> 227

<211> 605

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA891944

<400> 227

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cctataataa ctgtgatgat ttattccatc atagagatta agatcacatg tatgtttacat 60
acaatacaga ataattgtga tgatgactat ataatacccc tgtacatata tttctgtatc 120
tgtacataca accagcaaag agaaaatcta catctgtgac ctaagacaca gaattcacac 180
cctgcttctc cagccaggct aacagtgaga tcacagtcag tttcctgagt gctggggcca 240
ggttagagtc cctgtaacca acacatacaa ccttagaaga gctttaagaa aacacgcttg 300
ctttctcaca gtcaacctac tggagcggga tctgtgctat aaacgtgacc tcaagaatta 360
tttctgaata ccatgtaca tcataaggat gggaaacaaa gcctctgatt tcattgcaga 420
cctttcctgt gagtccatgg aaccacgtta acaaaaagaac gagcaggcag aaggggagtc 480
ttagcagaac ttggttcacc cccaatccca ctgccgtgag acttctcagt tcaacctatc 540
cttaccaca ccatataaag taaaccacc ttttacattt aagtgatgct ttttcataaa 600
gtacc                                     605

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<210> 228



<211> 542  
 <212> DNA  
 <213> Rattus norvegicus

<220>  
 <223> Genbank Accession No. AA891950

<400> 228  
 ccaaacggtt ccaaatactc aactgagaac tttatattata cgttattaaa aaggaccggc 60  
 ttcttctgtt ggacaacaga gcccaaaact cctttccccc aagtccacta ctcacagctt 120  
 gactgaacat ttaccaagc cggatcactg tcaactgctat tcattcaaaa cagacagaaa 180  
 tcctgagtgt gggttctgag aagacagttg tgctgtctt gatgggtgaca atttacatcc 240  
 atggactctg ctttgctact gagtttctga aggccaaggc tcaggaggac tgccttagca 300  
 acaaatgggtt attcctctag tctgaagaca tgaaggtggc cgaggctccg gagagtgcct 360  
 ttgtgcttat catccatgat gccaacatgt cccgtgcttc cgttaccacg ctcagcagga 420  
 cctcagtggc ttggcataga ttggctccag cacatgatga gtaagaagca ggaagaggcc 480  
 tccaagaaag acagcactga gaaaagccag caggacatag cggccgatga aaaaggcatc 540  
 ca 542

<210> 229  
 <211> 216  
 <212> DNA  
 <213> Rattus norvegicus

<220>  
 <223> Genbank Accession No. AA891965

<400> 229  
 agagatccag tttgacgttt tattaggtcc agccctctgc tacctgagca gtttcctcat 60  
 catccccagg gatgggcttc tatactcccg cccaaagtgg ttccaatggg ttaggtagtt 120  
 aaagagctgg tagagcagca ggcgtttgtc gaaccctgga gcctttggga tcttctgatg 180  
 gtaggcagtg aagaatgatc tggggaaccc cccaag 216

<210> 230  
 <211> 487  
 <212> DNA  
 <213> Rattus norvegicus

<220>  
 <223> Genbank Accession No. AA892027

<220>  
 <221> unsure  
 <222> (1)..(487)  
 <223> n = a or c or g or t

<400> 230  
 ggaaatccaa actatTTTTTTT aaaacaaaat attattttaaa tattatgaat ctctgaagtc 60  
 atgagactta tctctccaaa aggggaaggac ccatgggttc tattttttat gcagcatttt 120  
 caaatcacaca tgtcaatata tatttcataa actactaaaa aataaaaccc tttatcctct 180  
 gaggttattg atgtgtccta ggtctccaac acatctcatt aaacagtaag ttctattcat 240  
 cttcatgaat gaggtgggaa ctagactaaa aaataggatt ttaatccctg aggtgtcagt 300  
 taaaatgcag aggttgccaa gatttttttt ttcatttaaa aattagcttt aaataattag 360  
 catggatcat gctatctcaa tcaaaaccac ttcctctaca cggagtcctt tagaaaatta 420  
 cattttctgg gttatgggtc acctgatgtc ncagctctcc agctatgaga cttttttttt 480  
 ccttttg 487

<210> 231

<211> 433  
 <212> DNA  
 <213> Rattus norvegicus

<220>  
 <223> Genbank Accession No. AA892112

<400> 231  
 cagggctaag gacctttatt gagcacacgg cccctgatgg tgctgacgga gaaaccttag 60  
 gctttccttc ccagcagcct ccgccacagt tcttggtgta gtagtgctg ctcctcccg 120  
 gcgccttgca gcacactcct gttctcctgg gctcttcgga tcaggttaga tatcacctct 180  
 tccaggcagc cataggggat agacttatat accatgtatc cagcttgccc taatgccagg 240  
 gagacgtggg cacacatgcc cagaagttgt ccgaagcaga caggcccatc cagaggaatg 300  
 cccagctccc acatgctgca gaaaggggtca cattgtcaat ccagagagtg gctacagcgc 360  
 ctcgttgctt ggcgaatgga ttcttcattg tgggaagcca catgaggtgg caccggggac 420  
 cgtggttgga cac 433

<210> 232  
 <211> 443  
 <212> DNA  
 <213> Rattus norvegicus

<220>  
 <223> Genbank Accession No. AA892128

<220>  
 <221> unsure  
 <222> (1)..(443)  
 <223> n = a or c or g or t

<400> 232  
 agacataatt aatgtttacag taaaaatagg catttactca tatttgtctt gtttttagcca 60  
 ctttaatttc ttatcatctc cctcccccta aggttttctc aaagcacatt atcattttac 120  
 aaatacagtg ccaaggtcct gagtccactt tgcaagaatc ttcttcacat tcacggaaaag 180  
 cagttactta gtgcagagtt ctcatattcca cttaactgta cacggcttta tcggtgctga 240  
 gacactggcc cacctgctgg ccagtgtctc ccacttcaca cacctaaacc aagctcaaga 300  
 caggaaggct gagccgtgaa gagcatcncc acancctctc cactggcccc atagctcttt 360  
 cccgccctc ccagttgtcc tgagaaaaat cagatttgtc acagaaaact gacattccta 420  
 cattcatagg cagaagaatt tta 443

<210> 233  
 <211> 439  
 <212> DNA  
 <213> Rattus norvegicus

<220>  
 <223> Genbank Accession No. AA892146

<400> 233  
 acagctatta ggtgctgtcc acttttctgc acagaccctg aaccatgcat caacttattt 60  
 tctctgcaac ttacaataac tctctcagtg acttagctta acccttcaag tttctgtaac 120  
 tttctcttca tatcttttct ttatcttagc cagattgggtg gggcattttc cagcccctag 180  
 gagaccacc cttggagcct gggggcagac ctggagcact ccctaccttc aggggtatga 240  
 agagagcagg cagaagtggg ggccttctat gcgtgttgga accctttttt tttctggcct 300  
 ctagtaggat tccgtctttc ctcggtggta aagaagacct gtaacagtta ctaacaagca 360  
 tatcaaagg gatgggtgaga aaacaagaga atcttgagaa tagagtctac cgaagagggc 420  
 atacagcatt tagtcacac 439

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<210> 234
<211> 632
<212> DNA
<213> Rattus norvegicus
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<220>  
<223> Genbank Accession No. AA892234

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<210> 235
<211> 637
<212> DNA
<213> Rattus norvegicus
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<400> 235						
cggccgccat	actttttttt	tttttttttt	tttttttttt	taaatcatga	acgagttcac	60
tttgtttaga	aacagtgtt	accacgtcaa	agcctcactt	atgtgggaca	taaaaataca	120
ataaaaacaca	cacaaaaaat	tcagccacaa	aatataaagt	cagtatgtct	gcgaaccggg	180
cctacacatt	tctggtgtag	cacattttca	ttagtattct	atgtaaaagg	attcaggttt	240
tggtcacagc	aatgggaaaa	acacagctag	aaacagtgtg	tacactgagt	tgatttatgt	300
ctgcctatcc	cacataaaca	catctgtctt	tacgatctct	agctggacac	aaaagtcctt	360
cccaagagtc	gggctgcgtg	aacgtggggc	tcaagtggag	acaggaatga	atctgatgga	420
tttggaagat	ttgggcgagt	ccttccacat	cccagtgtcg	ttcgttgggc	tccggttggt	480
agaataagaa	gtctgtcttc	ggctcatgct	atcggagtca	tccttggcga	atttctgcgc	540
catgtgtgg	cagcatggga	aactttggac	gcagctttgc	aggagatggc	cactgaaaaa	600
catgtatatac	cacgqtttgc	aqcagctggt	caaggaa			637

```
<210> 236
<211> 606
<212> DNA
<213> Rattus norvegicus
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<400> 236						
gcacctgttt	ctgtgaaaga	caatttattc	atttgttctc	agctgtcagc	cacattctgt	60
gttcctagaa	tcacagtect	ttaatccac	tagaatcctg	atttcacatt	ggcaaacgcc	120
cagtgttttc	tctgattggg	tttcataagc	accagtaata	aagagtaata	aaattaataa	180
aaagtgttca	tcttaaagtc	ctttgaatgg	acagtgcaa	tcattaattc	atcaaaccct	240
ggtgtgtggg	agacaatgaa	aagggtttta	cgaagatact	gatctagatt	ttggtgattc	300
tgaagtgcag	tcttggtcat	ctttatcctg	gaaggagcag	gatgccagag	cagtttgctc	360
agctacacct	cggttgttgg	tctttctcaa	gatttctcac	catctttctg	aagcctgggt	420

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ctggtagggt ctgtgagtag caatgggtcc tgtataatgg ttgctgggta atttttaccc 480
agtagttcaa cctccacttg ttgtcccact tcactgagct caactgggac ataagcaaaa 540
gcaggctctt ctggatgctg taactgtagc ttccacatgt tgtgttgcca atcagcttgc 600
ccttgt                                     606
```

<210> 237  
 <211> 719  
 <212> DNA  
 <213> Rattus norvegicus

<220>  
 <223> Genbank Accession No. AA892373

<220>  
 <221> unsure  
 <222> (1)..(719)  
 <223> n = a or c or g or t

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<400> 237
atacatttaa taggataata tcacataaaa taataagata ggcacaaaact aagaaggaaa 60
gagtcaggat aaagtgtcat tgccattttt gtttgcagga tagagtcaga aaatggaaca 120
aactgagatg actagggaaa cattctaaac ccacccaac ctagctaaag ttacataatg 180
ttaggactca agtgccaaat tagatattac ccacttaatc tacgagtga aaagagactc 240
caaaatttat cctatttagt ataacaactt ttacatgaaa tatatagcaa tttgtatctc 300
agaaagcaat acggcaactc ttaggcgttt cctttatgca gtgactagaa aatccttggt 360
cagctaggca gctctgcgac accagtaagc tgctcagggc tagcatagaa cagcttgata 420
gagagctaac ctctcagggt tcagaaggca gcaataattc tattttgggt tttattctaa 480
atgcttactg tagttaaggc gacaactgaa gcacattaag tgaaggtagt tagaatttag 540
tgacaatcat tagtctcttg ccacctacac agaactgtat aatgcttttg tggaatggaa 600
gtgttgatta actggaattt tacacactca cacacaaact taanaagtaa cgatcaaagg 660
caatcatcct acagggtacta tgctgatgta ctacaatcca catatgccac agaactgaa 719
```

<210> 238  
 <211> 591  
 <212> DNA  
 <213> Rattus norvegicus

<220>  
 <223> Genbank Accession No. AA892395

<220>  
 <221> unsure  
 <222> (1)..(591)  
 <223> n = a or c or g or t

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<400> 238
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catccttccc ttccgagctg ctttgcctag tagtggctgt atgcatggaa gactgacctt 120
ccatgtaaag cccgttcttc tcttgatggt atgttctgga acacggggaa ctggaggtgt 180
tcggagacta ctgggtgacg tgctcactac cgcacttcaa cagctgattc tgcttttctc 240
ctgtgtttat gattcgcata tgtgggtgtt tcaaaagttc aatcaaattg gatctaattt 300
ccagggtctga ctgaagcctt tcagggtctc aaccaaataa ttaggacaaa ctggagcctg 360
gctggtaggt gacggtatct agtaggtgta ggaggctttg aagagtgact gcgtacaatc 420
agcgctgac gagccgtgt gaacatactg tccttgggct gcctggcagt tggccacagc 480
ccgcttcatg aaagcttctt gngttgcctt cttgtttgca gccttgccgc cccaagcagc 540
caatgcactg gcctggaggg ctctgcccgt tgaaggctt agcctcgtgc c 591
```

<210> 239

<211> 498  
<212> DNA  
<213> Rattus norvegicus

<220>  
<223> Genbank Accession No. AA892425

<220>  
<221> unsure  
<222> (1)..(498)  
<223> n = a or c or g or t

<400> 239  
gaactctaac aatgtgatag gtgccacaca aaacattaga cacagtatct gcccggtggg 60  
cgtacaatct aatctaagga cacagatcat tttttgaatg ttgccatgag ctttctgttc 120  
atgagaatga ggtattaagc gcaccgttca gtgcaggaaa ggacccacac aatcactgac 180  
ctttcaggac ggttttgccta cataagtaca accaactgct catgtttctt attcttggga 240  
attatggata gtgttttttcg ttcattttat gatgagcaca acaatctata aggacagaat 300  
cactaaaccc acaaatctga caaaaccagg gttcaaaact ggctcttagt ccaaaataaa 360  
attgttgtat gttcagaaaa tcagctaaag taggacctag agaaagtgtc aggagccatt 420  
tttgttcaga gtccccctac tgtccanaca gtctctctcc tcaaagcagc tttcaaagtg 480  
ccctttatct caagtctt 498

<210> 240  
<211> 583  
<212> DNA  
<213> Rattus norvegicus

<220>  
<223> Genbank Accession No. AA892506

<400> 240  
accagaaaat aaagccgttt tattattttc gtcttatcca ccatatggcc tgaggggttg 60  
ggtgggagca gagtaaatgg ctggccccag atgaaggctc tggagtcttc tacttggcct 120  
gaacagtctc ctccagcctg tccaggcgct cttgaagctt ttgcaactatg gcgttgagat 180  
tcctcacatc ctctccagc cgtgacacgg tgtccgagct aagagtgtca ctgggctccg 240  
gtgtagctct tctgcgagca ctgtccaggc cctgtttgac tcttagctcc ctgctctttg 300  
ggggcacgta gccatccttg agggaaatga ggagggggcc agcatcacga ccgctcagcc 360  
actctcagc tgtgagggcg gggtcgggtc cggcagtggg tggatacagg tcctcctgga 420  
acaggtccga ctttctaggc actgtcatgg caataggctc acatttccgc tcatgaagct 480  
atagaatct ggcaatctcg cacttattca cttccaggcc acgtttgggc atgtagccca 540  
taccacgttg agactccttg gaactgaaca tggaaagata atg 583

<210> 241  
<211> 547  
<212> DNA  
<213> Rattus norvegicus

<220>  
<223> Genbank Accession No. AA892520

<400> 241  
gacacagaca caaaggcagc tgtggtaatg ggggtggggga caaaaagca aaaatcacac 60  
ttcctacatg gaggcctcaa ttagacaaga gagaggctgg gtccctcccc tcacactcct 120  
tctgacagtg gctggagtaa cagctctctc taatccaagc tcagaagcag caggtgaccc 180  
ccacctagcc tcaaagggtc ccactttggc tccagaagcc cctgtccttt taaccagccc 240  
agtaattccc ctaccgagc tccttctccc ccaccagtgt aaacagagtt tggggctgaa 300  
caacagagct ctgggaaggc aggagcctcc tagatagcaa agggaatgtg cttggagttt 360

cacttcgggtc ccagaatgag acccagcagt gtctcccaga actcgggctg atccagtata 420  
 ctgcctcttc attctccacc actgacagag ataggccagg cccagacca cagtaaaaac 480  
 aattgatccc cagaggtttag agctactccc taccctcgac ccctggcaca tacacagatt 540  
 tttggca 547

<210> 242

<211> 524

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA892553

<400> 242

aatcttatgg cagtaaaacg ccagtaagca ctgataccag gactagtttag gatctttcca 60  
 gaacgtccaa ctgtggtggc aacatcagtt acattgggaa agcaagcctc gagacagtgc 120  
 aatcaatgag ccccgccag ggatggggct ggcttgaggt tctcaacaag ccagtcttct 180  
 gtgctcactt acacttcaga cacagaaatc aactcagctt tgatgtatcc agttctctta 240  
 gggtcacatga gctccatcgg ttctggtgct tcttttgcc tggagtagta cttcccgaaag 300  
 gcatggtctt tgtcaatatt gggatacaga tacttcaggg gattctctgg tatattctca 360  
 gcagccatga ctttgtaatt gcgaataata tctgggaaag taacagctga aagttctttc 420  
 ttcgtgtagg gctcaacagc atggaagtcg gggtcacctc cattttggga ccgttccacc 480  
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<210> 243

<211> 465

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA892561

<400> 243

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 attgaactca ggacctctgg aagagtagtc agtctcttaa ccgctgagcc atgtcttcag 180  
 ccttttacgg gaaaggtaaa tggtccttt gttaaactctg ggcagtcgac cacagagacc 240  
 tggacatgag caaagtgtgc ctttagcccc ttctgcaaaa cttctgcgag ctccctccaga 300  
 cttggcacgt ggaaagaaaa ctcatgtcaa gccattctct ctccctctcag caactcagac 360  
 acagcagctg ttggctgacc tccaccagag ttcacagggc accagcgtga acagtccctg 420  
 ctcttgtcac ccactgaata aggtgtttgt aatcttccgt tagaa 465

<210> 244

<211> 658

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA892598

<400> 244

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 gctatatata atctgtggta aagtcatagg catcgtcttc ttcactcatt ttatccaaga 180  
 taaaggatct gtcagatggt ttacttgctg ttgattgccc aggtgacatc tccctggtct 240  
 cttctacagg agtcacatct gagatctctg catttttttc accagtaaca tgttcttgat 300  
 catcaccatc ctggttggtct tctgtctggt ttggtgactc ttcggggatg tcccttttctt 360  
 ctagtattcc atttgtcagg cccgaagacc ggaaaaggat tttattagtt aaatgagggc 420

ccttgaggac ttgtatgctg tgtgcattat tcttttctag ttcttctaga ttaaagcccc 480  
tcttcatgat tgctgtaata ttctcattaa aatgaggaga atgattccag gatgcagggg 540  
gatggcagta gtaacctaata gaggcacctg tccactcaga ccatagcagc ttagcagcac 600  
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<210> 245

<211> 476

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA892602

<400> 245

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gtctatggag ttgtgcaaca aggaggtggc tcaatctccc tcacaaggga gactggctgt 180  
acggggtagg gcaaggttca gtacaaggtc aagttccccc tacacaaatg ctttcatggg 240  
tggcctccag ccccataagg attcccagca gagagaccac tccagcactg cctgactgaa 300  
agctaccag ggatggaggc atctttgata ctgggaagat tctcaatgcc aaggacacac 360  
atctgtgctc ctggaaacat ggtcttacag cccagaagga tcttagacca gtgcctctgg 420  
actgcagtct gttcctctat ccacagtttg cctcttccct ggggtctgaa ttgagc 476

<210> 246

<211> 487

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA892666

<400> 246

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tcagccatct ctgcagctcc ggagaagaag gctctgacag gacagggccc aaaaccctgc 180  
ttgtccttca gtggccctag gaatgcttag gcagactgag gttaggggac agaaggggaa 240  
cctgaattct catagctcaa gacctgggta aaacttctgc gggggtagtc tgaggtaaaa 300  
gagaaggcag gaaaacagtt ctgtcaagga aaggaaggct tgaagaaaac agacacaatg 360  
gagccaggac ggagaggtgg agcctatgaa gtcaggagag tccagaggac cacttctcta 420  
ccaggagcag accttagtga tgacagagaa cagagctggg cgtagacac agcctacagc 480  
cagctct 487

<210> 247

<211> 503

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA892821

<400> 247

aggtcggacg cctgctttat tcagacggga aaagagcagg gagtggatgg agaccagcag 60  
aaaagaccac actaggctcag cactgggcaa ggagtggcca ggggtgtgact ctaagagttg 120  
gcagaaaagc cctggcgtct tgagtcacga cagtctatct gaagtagttg ggacactcgt 180  
gggcgaccac gttccaggct tgggttaaagg cctccacgac agcgggctcc aggggacctt 240  
cctcagtgcc gcceaagttc tgctccagct gctccaggct ggacatgccc aagatgactg 300  
cgtccccctg ggtgccctgg agctgtgagt gatggtacat ccagcgcagg gcagccgagg 360  
tcagtctggg ggcactgggtg ccataggtgg tcttcagggc cttttctacc agggcaatgg 420

cctcaaagtg gtgttccttc cagaagcggg tctgttaggt ctcagaccag ctattcccaa 480  
agaagcggcc ctcggtgtgt ttc 503

<210> 248

<211> 644

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA892851

<400> 248

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atttttcact gctatataaa tttattggga atgttattca catctattgt cacctaaaac 120  
atactgtaaa caatgggtta ttccctaaga caaatgcata cgtgattctc agcaatcatt 180  
ggtttgatta ttagtaggtt acaagggtcac atctctgtgg aatgtcagtg accgctgtag 240  
tgtgacaggc ttcagcgcat cattgcacac actgcttcag aacagtcccc accgggtctg 300  
gacccaggac gcaaagcacc ccctctgctt gaaacggcag ctctggaagg tctgcgtcac 360  
agctccaggt ctctcgctgc agcactctat gggcacgtgt gatgacgtgt acacacgcac 420  
gactaaaaag tttacctctc gtaaacaaga gcaacattac cgtcaactct cctgcatatt 480  
taagtagtaa agtctacgta tttgtaaaca acaaaaacac acaaactctat ttttaaaaac 540  
ttccatcagc tcgtaattcc tctgtgatct aagtgtgtcc acactgaatt tctgaaaggc 600  
gcatgtatta ccttaggtta taaagctctg caagggtgtc ttca 644

<210> 249

<211> 515

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA892861

<400> 249

caacattaaa atagatttat taattactgg tgaaaaacat gatatattat aaccaagtca 60  
tatactttat tgaaaagaaa aaaatatctg gtaagaagtt tggcacgggc ttctgctggg 120  
acctgtgtga aatcccagga cttgtagggtc ggggctgcct tcgtgagggg tgtcaatgca 180  
gcccaagaag tgggtaaagt aggaagtggg ggtcaaagaa aggcaatcaa gaggtctgct 240  
cacaggggcc ttttcccacg ttcattgcact gtcaggctgt atcctgggac agcgggggagc 300  
ctcggagagt taatgagaaa cagaattgtc actttggcga ccaatgtcag aaaacaggtt 360  
cttggtcaag cgtaggtac tagcgaattc tgaccctgag acttgagggt tcaactgtctt 420  
taaactgccg ggcattggag gaagtgtcca aagatgggac ttatagagag aagtgggtccc 480  
ggcttcctgt agtctccatc tcaccagccc caggc 515

<210> 250

<211> 533

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA892888

<220>

<221> unsure

<222> (1) .. (533)

<223> n = a or c or g or t

<400> 250

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tggctggaag gacacacaag ggcgagagag agagagagag agagagagag agagagagag 240
agaatgaatg aatgaataaa tgaatgaata ggggtcctaa aagggttggg ttgggtaagt 300
ccagggcctt gcagtctagt tttctgcctc aagagagcag gaagaaagcc tcaactgtgga 360
gaaaggctga agctgattaa tgatcaccac gcccggtggc gcggtgctga gactctctgc 420
tttacctgac cctccttan aagtactggg gtgggttctg gctgcacatg gggagatcag 480
atggccttct tgggggagag ttatttcaca gttttcccca tgatgtgggg ccc 533

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<210> 251

<211> 541

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA892916

<400> 251

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cattagcaca aacattacat caacagttcg ctaatcacat ctgtgggtct aaaggaatca 120
ggccgtaaaa gggcatctct aaaacacccc tgggcaggtc caaactcgct gggtcaccca 180
attacagtgg agaaggcagt cacagaaaga aacccaatga aatcctcctg gccactaaat 240
gggagtcctt aaaaccctct ggcattgaaga gacttgtaga gactgggaga acaccctttt 300
actatggagg aaaaccagga gtccagggtat tctcacacat ctgacatggc ccttgagaac 360
aagtttcagc ttgcataatc cctgcataca cacatgcatt accactaaaa ggagtcctcg 420
tgggtcctac ccggatgccc aggggtctcc cacaggtagg ttcattcatc cgggttttgc 480
aagggcccg aacaaaccgg gcgatgggtct ctatttctcc attctccagt tttaacaactc 540
g 541

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<210> 252

<211> 603

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA892918

<400> 252

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ttattaacag aatgtagtgg tgtattatct aaacagaaat cgtgctgatg tgccataata 120
aactattagt aaaaaaatac actttagggc acagcattgt atcacaaatt ttacagaagg 180
gatactttgc aagaatttaa tcaaactaga gtaactgtat cttttaaatg cagcacttaa 240
aaatgtaaca actctgtgca ttctttttct taaaaaaatg accttatatg tgtagaaatg 300
ctgctttatt gctgcagagg tcaaagttca aggctcaaga ggtacaggag agaatacaaa 360
ggtagcctta gaaactcggg tctgtttatg tataaaaagg taaagtttat aaaagttaat 420
ttacaaacca agaacaaaag tggatatgcac gcattatgta catgcgtcct gaacacatca 480
aacatctcag atgcatagcc caaagaacag aagaccacca accactctcc cttgtcaaaa 540
aaaaatattt taagtcacac cattaatttc ttccagggtga ttacacatt tccgaaacca 600
tca 603

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<210> 253

<211> 441

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA892950

<400> 253  
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acgccaggta cttgaccagg aagtctctca gcctggatat gtgcatcatc tccttcatcg 180  
tggtgtctcg gcttcgaagc tggatcagcc cactttccaa ggtgggttca gtgattagaa 240  
ccgtgaagag gatactcatc tcacgtact ttgaatagag ttgctctaag gaggactgtg 300  
cagtttccaa ataaccaggc cacacagcaa tcccatttcc tagtaactca ttgagtagcc 360  
cttggcaaac ctgtcggagt tccacgggtg ggcctttccc cacatctaga gccaccttaa 420  
taggggctaa acaaggggtga a 441

<210> 254  
<211> 496  
<212> DNA  
<213> Rattus norvegicus

<220>  
<223> Genbank Accession No. AA892993

<400> 254  
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cctgcccagt ggggtccagt gctgtatggt gagtggccta gggctctgct cttcatcagg 180  
ggtggcggtg gggatatctga gtccggaggc catggttccct ctgttccctga cccactgtac 240  
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aggttaaagg gatgcagttg agatttcatt tgaggggggt ctggagagccc caaggtgcag 360  
cttcttccct agcgggtgtg gaggggctgc tcccgggtcca agaggcctgt cacagggtgct 420  
cgctgtggga cagagggggg gatgaagacc tcgagctgag ccatactctc tcttcacccg 480  
ttcttccctc cctgca 496

<210> 255  
<211> 482  
<212> DNA  
<213> Rattus norvegicus

<220>  
<223> Genbank Accession No. AA893000

<400> 255  
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aaactgaaat ctttaattta caggactata aatgatgcc aactaactgag aaccagccag 120  
caaacagtag catctgaaga ccaccactcc tggaggggtc cccacaccaa gtcagccag 180  
tagtgactac agtagattag gagctaggag tcagaagaac aatgcttgag gttataccaa 240  
cggggggttc cttactcctt tgccagctgc acattggtag gctttgctcc aatgggggatc 300  
ccatatttgt gcaaagtgtt catcaaaaac tccctcatgt cgttggtgta ggaatcaaag 360  
tcaaatacat tccgaaccac actggagagg ccttcagtag ggaatttctc taagtgtttg 420  
acaatgttga caacttctct ggtagaataa ggatagttga taatcccttg gtcagccaat 480  
tt 482

<210> 256  
<211> 367  
<212> DNA  
<213> Rattus norvegicus

<220>  
<223> Genbank Accession No. AA893032

<400> 256  
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acaaggggtca tttttgggtcc aagtgtctgtt aacattttttg agggagtttt aaggcatttg 120  
 ggtctcaggg tttgttagct tgccctattg ctttcttagc cagcagttct gagcaactct 180  
 caagctttgt taccatctga ggtgcatctt ctttctgtgt acttctattt ctaactcatt 240  
 gttatgtctgt tactctctgg tctcccatgt agagtactca ggaggatttt cttgatcttt 300  
 ccgctccatt gagaacatct ttaattgtat gaaacatcgc aggttgtctt tatctacaga 360  
 gtaaagg 367

<210> 257

<211> 424

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA893080

<400> 257

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 ctcaagatga cagaaccctt tgcagataaa attaaaattg aatctgagtg agaaatgacc 180  
 ggatttccca ctttggcaaa gatcaggcag cagcctcccg gcagccatcc ctgtgtagaa 240  
 gacaggggtga gctgtgacct ctgggaacaa ggcattgagac ctctgtctggg gaccatcagg 300  
 ccagggaggc aggtgggcag tggcaggctg agggcagagg agaagggcag ggcagcatgg 360  
 gggaggggtg ttgtctgtac gtgcacacgg gaggccatgg gtggagacga aatcaacttc 420  
 ctat 424

<210> 258

<211> 479

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA893082

<220>

<221> unsure

<222> (1)..(479)

<223> n = a or c or g or t

<400> 258

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 tcaccttaaa actgtgcagt aatgccattt tataactgca taaattttat tagcgttcta 180  
 aacagttttg cgattttttt tttgtattat atgcttgagc gttatatctt agtgcaattc 240  
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 agatataagc agggggtgtt ccccttttta atactttggt tttcaataca gtccacggta 360  
 tagcaagaac tacacatacc caacttatat ttaagttgca agcacatgct tcagaagcta 420  
 cttttaaaac agtcnccttg caaactctac cccctttaac atcacaacag taaacgatt 479

<210> 259

<211> 413

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA893189

<400> 259

tgctaactag tgtaaattatt atcacatgaa aaccaacccc ggattaacaa aacaacctta 60

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tgattagaca ctttaagacct cgatttttttg ctttaactaga aatttacacc accagaagtt 120
cctgattaaa atacagaaat ctataaagct ggcgcaggac gtaaacttga ttggttcctc 180
ccagaggccc actggtcgga ccgctagcca cgagtcccgg ggctctcagc gcagtgtgac 240
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ccccatttct actgctacag cgaagccctg aagcatctca tcgcagccaa tcccctgcat 360
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<210> 260

<211> 643

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA893242

<400> 260

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ttttttctaa gattttttgtt tcaggacctg aattaagaaa aatcaaaaaca aaacaaaaca 120
gaaaaattaa gagatgattt tttctttctc ttgaaagttt aagagagatt ctcagttcat 180
cttttcatga ctggaacttt ctaagacaaa ccacaaagcc atataccaag cagaaatcag 240
agaacgaagc ccagtcacca tcagctgcag gtggaaacca cggagaagcc agcacagcaa 300
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gcaaggtttg aaacccttct ggatcagcgc cgagcctatg cactcagcca tttctgcaac 420
ctgtttgtaa gaaatccact catatggctg gtttggcttt ctagaacctt aacaagggcc 480
atcatttgac acctgaatcc cctcttgaa gccatcgta atcgttctga catcgctgta 540
gtagtacagc aagagcttgt cgtcctcaag gactgctgat cttcggacac cctcagtagt 600
accggttact ttcacagact gcatggacag atcacatggg ggc 643

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<210> 261

<211> 540

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA893246

<400> 261

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tgccaaggtt tacaagtggg taggaaggaa ggctgctcag catttgacct agaccatgaa 180
tgtttatagt aagtatttcc taaagtttta aacacatcag tcaaactagt gtaaatagga 240
tggtatgact ctttcaactgg ggagattctg taagtgctgg gtgggtttta caaatctcag 300
gttgctgaat tatgatgcag gaaaaatggc ctcacacagc attctgataa atcttacagc 360
cagatgaact cttctgcca aataaatacc cgcacatacc gaacctgcac actgagttaa 420
atgatgctca gcctgaaggg agcagcgggc agctactcga acagcaggct ctcgtccttc 480
tcttccgcca ggaggttggc gggctccatc aactctccag ctgctctccg ccgctccaag 540

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<210> 262

<211> 512

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA893436

<400> 262

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 aatccagct accaagaggt cctctcccag agtgccggtc gcctccgga cattctcccc 180  
 tctccctcag cattcgaacc ctcttactaa gagaggttagc ttgtgcccag gctctattcc 240  
 agtagagctg gagaatttat gacacactaa aggaagccac cagaccgggc ttccgggcaa 300  
 cccacttctg tcccgttcct ccttttctct tgcttagaac acaaaagtga ccagcaggcc 360  
 actttgtggt ctcgtaaccc aatattcaaa gccatcgtgc ttctgatctg aagtgttttc 420  
 tgaagggtgt ggtgttcagc tgataaggcc tttcgttaact gattggatca ctatgcaatg 480  
 aaggaagggc tcaggcttcc tcagcaagtt aa 512

<210> 263

<211> 466

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA893453

<400> 263

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 agttcgggtc gatgttaaac aaactacaaa aggtttgaac aggtcgctca caaaaggat 180  
 ttaggttatt agttaccatg tgaaatattt tcattgtcgt aacacaccag agaaatagaa 240  
 taaaaatggg ggacagtac actttacacc tacgagaatg gctaaagtca aaagaattca 300  
 catgcggcct cctgcccccc gcagatgtac aatgtttaca cctgacacac acaggtcacc 360  
 agagtctggc ttcttttcat cgaatataaa tacctgcttt cccaccacc aacaaccaac 420  
 cagcaaatca gtgcccgtat ctacttaaag aaagttaatg ggtgct 466

<210> 264

<211> 410

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA893454

<400> 264

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 ttagaagatg catttggtc cagcatggat gatctctggt gtgacatttt ctgacgtctc 180  
 cataagacac tccccatgag tttctattta attcgcttct aagaaacttt ggaaatttca 240  
 aaataagtggt atggtcaaga ataaaaaaat atgactcttt ttaagctgtg tgtataatgt 300  
 gcctggtaag ttagagggaa atgagttttg gaaagcaggg tttatgtggt ataaaaatac 360  
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<210> 265

<211> 434

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA893485

<400> 265

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 tagtcatgct tgtcaggatc tttctggaag gacatggcca agcatgagag ggtggggggc 180  
 atccatgcag tcattctagg ttagttgagg agtaggaaat tgagagtact tctcgttttg 240  
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agcctataga ggagactgta tttcatgtgg tgtaagcatc tggataatca gagtaacgac 360  
gaggtatccc cgctaatacct aggaagtgtt gagggaaaaa tgttatgttt acacctacaa 420  
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<210> 266

<211> 656

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA893495

<400> 266

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ggagaccctg agaagactgg ggaaaggctt ccatccctca aagtcagatg gcaccaaggc 180  
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agcgcaggtg taggggagcc ccgttggttag aattaggcaa cacattccct tcatccagtt 360  
gtagcatggc cttgtggacc atcgtaaatg tcaaggggaa atctttggtg ttgcctgaga 420  
aatctgattg gttggtgagc aagtccttaa tggtcaggtc ttccagcacg tctttaaggt 480  
cataggtatc agacatggag aatttcggga tgtataggtt cacctgcctt ggggtcataa 540  
gcttgcccca cctatcaatt gtgtcccgac taagtgcagc gatgacagtg tccatctggc 600  
cctggtccgg aagaatgaag aaggcagttc catttccac atagtccac tgtatc 656

<210> 267

<211> 630

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA893552

<400> 267

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agccatgggt gcagagttat tcatatccag gcctaccag tcacgttctc ctgctggtaa 180  
cagaccacct aatcctaggt ctgctatgct gtggggttga ccaccttccc catgaagagg 240  
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cgtttcttgg gctgggcaga gaaaaagggt gaaaaggagc cgggtggctgc tgctgccttt 360  
gtgccaaactt cattcacatc caggacggtc ttatggaaaa ctttggataa gtacaatttc 420  
tcctttttgc tgatatattga gaagttggca tttggggtga acagatcctg gaagcccaag 480  
tcaggcaaaa tctcatccaa ttcataggaa tttgaaatgg agaatttagg gagctgcaat 540  
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ggggacagca cctgctccac ctcatccaac 630

<210> 268

<211> 485

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA893667

<400> 268

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cgagggtgag gggaaggata gaggtcaatt cattcttctc tcagactcgc tctcatccac 120  
tgggtgtcct cggggaggac cgttttctgg aagccagtgc agaagggtgc cctgttctct 180

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tgccgctcca tctcaccgtg gcagcagcgt gtacccccctg agggcggggt ggtcagctgg 360
ggcatctggg tcaagtccagg caggcccatc agaagccaaa catcatgtcg gcaatttgga 420
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ttttg 485
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<210> 269

<211> 407

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA894027

<400> 269

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taaggaaatc ttctcagaac atctggtaca gaacattctt tggttatggg atgggggtaca 180
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gactcctggc cttcaaattg acttgaactg gtttctgact catctgtctt atgtgttcct 300
gtcacataag cctcttgga gctaacattt ctggctattg taatggctac tagtggcaag 360
cattttagca ttctttattt gtccgtagac aagccttggt aagcgct 407
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<210> 270

<211> 511

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA894233

<220>

<221> unsure

<222> (1)..(511)

<223> n = a or c or g or t

<400> 270

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attcatccag agtattgtaa agaaatcaca caaagcctgt cactggagag tcttggcacg 120
ctctgtgaag ctctgacatg gccagcttcc tgcagacagt tgatcctgcc ccaacaaagg 180
gtgagcttgc tgggtggcac ccacgacagc agagccaggg gcagagctgc cgggtgagtgg 240
tcagtctctg ggagagagag tcaagtctca actccagtgt ggaacagacc ttggtcacag 300
tccaaatggg gatggactgg aaatcccacg gaggtgcta tctcaaggac tcttgccacc 360
cataaccaga ggccaaggcc aaaagcaagc agaaagaagc aggggtggtaa cctggaaatc 420
actcgaggac tcagttgccc ctctggtctc tggagatcaa ngcagcaatg ctctccccc 480
gccacaggtc tctatcctgg gattcctaaa g 511
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<210> 271

<211> 473

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA899045

<400> 271

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ttatcatcct gatgagattc tcttgtctga agctcttcat gcattcaggt acttggcatg 180
atgcctgatg tggtcagtga tgaagggtgc gatgaagtag tagctatgat cataaccctc 240
ctctgttacg taagagtaca ttctgtagtt agtggtccaa ggatcctcag tggcggttcac 300
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acgggggctg gtatcaggag caatgaccac aaggccatgt tctgaggcag cttgttgaca 420
gccagacttt gatatgaaat tttgttctgt gcaagttaaa ccagacagcc agt 473
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<210> 272

<211> 477

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. AA899113

<400> 272

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atcacactat acatgttgtg tgatcttttt tcttttttct tttttttgga gctggggact 180
gaaccagggg ccttcgcgtt gctaggcaag cgctctacca ctgagctaaa tccccaaccc 240
catgttgtgt gatcttaaag aaataaaatc actttgacta tgtcaaaact agtctttgcc 300
catccatttg tcccctacca cagctcccag tgagagttct agtcacagca atgtatcgac 360
acagacatca catcaaagat acttcaaact cctatgtatc aaagtagtac atggcttgaa 420
gacagatggc actaaatata taaaacacag tacagataaa ctggaacctt aacacta 477
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<210> 273

<211> 536

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. AA899195

<400> 273

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gacgtgtatc ggtagccatg aggaaatctt ccagagctca gtctctcact gtcgcccagc 180
tgacaagcac aagctgtggg ctccatccgt agtccctgcat aaagcaagca ggacacacac 240
ctgtgaccct agtactcggc aggcagagct gggaggaggg tcaggagttc aatgtcagcc 300
tgggctacaa gagaccctat tctcacagaa gaaaaacaca gagcatgttc tagcaaaggc 360
taaggcacgt ctcccacaag tggaaagctg gaacatcagt gtctcggcga cagggtattct 420
cctaattcca ttagtgaagg gcgtctcaag tcagctgggtc accggagcca tgggtctctg 480
acacagtgtc ttcgtttccc actatttcat tgagcttcac tgggtctgtat ttttca 536
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<210> 274

<211> 472

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. AA899256

<400> 274

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acaccgattt aacaacagtt ttcgaaaatt cacagtcact gttggctttt ctgtagtggg 120
cacttttcagc gccatgaggc agcggcacat gttggcataa gccacagaga agttggggctc 180
tgaaatgggt ttctcgaaga tgagggtcaat gactcctttg aggcgttcct ccgtgtcaat 240
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ggccagctgt gtcacctgct tcatcagctg ctgaaacatc tgggggtgtca gcttattcaa 300  
 gatggagcgt acccttcgga acaggtcctg ggtcttgctt ccgtcagcat cctcctcccc 360  
 tcgatcctta tcagcggctg tccgtttgct actgggtttc cacgccttct ctgctttggt 420  
 cagttttatg tcttcagtca ttatcactga agaaatgatc ttgcgagttt cc 472

<210> 275

<211> 343

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA899498

<400> 275

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 taaaggccaa ggagagcccg tcatccaggg gcaggaggct aatgtagacc ctggcgctcc 180  
 gcaggatgcy ctcgtttagg ttccgcacac attcaacagc cttgttctgc gtccaccacc 240  
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 ggctgcagcc gaaggtcgat cttctgtctc acttctgcct gct 343

<210> 276

<211> 333

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA899635

<400> 276

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 ggccatcgaa gacggaaatt tggaagaaat ggaagaggag gtacggctga agaagaggaa 180  
 aagacgaaga aacgtggata aagatcccggt gaaggaagat gtggaaaaag caaagaaaag 240  
 aagaggccgc cccccagctg agaagttgtc accaaatccc cccaaactga cgaagcagat 300  
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<210> 277

<211> 470

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA899721

<400> 277

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 atttttaaat tacatgttat ttgtgtgtgc atgtgcaggt gtgtgcgtgt gttggaggac 180  
 aacttgctcag agttggttct ctcctaccat gtagatcctg ggggaaagac aatctcaagc 240  
 tgctcaggctg ggcagaaagc accactatca ctgagccatc tcaccaggctc aataggcaca 300  
 gttttataag gaagttttta tttctttggt gtcttatagc actggagaat gaattcaggg 360  
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<210> 278

<211> 344

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA899797

<400> 278

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gggcataaag cataactcaa aaattaactg ggggtgggga tttagctcag tggtagagcg 180
cttgccctagc aaacgcaagg ctctgggttc ggtccccagc tccgaaaaag aaaaaaaaaa 240
aggaaaagga aaaaaattaa ctatatctct atatgttagc acttgaaaac tcaacatagc 300
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<210> 279

<211> 426

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA899847

<220>

<221> unsure

<222> (1)..(426)

<223> n = a or c or g or t

<400> 279

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cttacagtga acttttgaga tcacacagat agacaggtag acggatagac acacacacac 180
acacacacac atacaaacac acacacacat acaaattgtc atacaagaac tataaactgt 240
taatcaaaat tatgaatgat aaggattaag caatttatat attgggaaat ggagganggg 300
aagggcagga aggagtgatt agagaaggct caatgaaggg gatgacgggt agcaagttct 360
ccaagcatgg ggatgaaatg gcttccaggt cagcataaca gcttgaacct aagtaatatg 420
gtggaa 426

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<210> 280

<211> 351

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA899964

<400> 280

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gagtgactgg gcgcgcggtg acagtgacaa accagtgagc cactgtgac catagaaagt 180
tacattagca atcaggagag aaaggggaagt gtgaggtggc ccataggcaa gatgtgagca 240
gagcacctgg acccttcctt ccctacatgc agtgcttggg ccctgctgac gggcacagtg 300
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<210> 281

<211> 480

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA900009

<400> 281

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tccaccatag cctggactcc attcttcgag aaaatgacaa ttctctggac agggccacaa 300
ggattacaga tagtgtaaag aacatccgtg gttatggagt agatgggggt caggatggta 360
aacagaagca cactgttgac gtcgctggag tcatcagagt caccggggcg agagatcttc 420
tggtctggtag aataattgac aaaagcaagg tgaccagcaa ttagatctg gttgtctgca 480
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<210> 282

<211> 493

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA900290

<400> 282

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caacaattgg aagagaactc cagggtatct ttttgactct tacatttttt tttagaaaaat 180
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gcacattgca gaagaagtga tggagtaatc ttcacatcta ccaatgtcat cacaacagaa 420
aaggcacaaa taccgcagag tgactacagt ggaaactaga accgaacgct acagaatctc 480
tgaaacacaa tga                                     493
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<210> 283

<211> 527

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA900506

<400> 283

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tggtagacca tgaatcaggc caccatgttt agctgagact tctcaacagg ctgcccacta 480
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<210> 284

<211> 274

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA900548

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 gctcatcatc tggggtgagt tactgtgacc tcccttaaaa tcctgggtct tcacaacaag 180  
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 ttaaacatgc actgtaaaaa tgacgttttc tcgg 274

<210> 285  
 <211> 406  
 <212> DNA  
 <213> Rattus norvegicus

<220>  
 <223> Genbank Accession No. AA900553

<220>  
 <221> unsure  
 <222> (1) .. (406)  
 <223> n = a or c or g or t

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 cctagtggct gaggagacaa agtgaggggc tcccacagta cctggactag gaccgagaca 180  
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 ggagctcaag gttccaataa cacatgtgag tgcggagctg ggaacacatc ttccattgga 300  
 ctgtcctggg gcttgtcttg tcaactcaagg caagtggagg tcagaaattg aactcangg 360  
 caccagagat aaaagacatc tgaggccatg gagaacaaag atgctt 406

<210> 286  
 <211> 535  
 <212> DNA  
 <213> Rattus norvegicus

<220>  
 <223> Genbank Accession No. AA900580

<400> 286  
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 gagtccttta cggactaact gggagggtta gaattcccag ttgcggcgca cttgggttttc 180  
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 cgggtcgttc agcttgggag ggggcagctc ccgggcctca tccggcaaga atcttaaggg 480  
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<210> 287  
 <211> 398  
 <212> DNA  
 <213> Rattus norvegicus

<220>  
 <223> Genbank Accession No. AA900613

<220>

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<221> unsure
<222> (1)..(398)
<223> n = a or c or g or t
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<220>  
<223> Genbank Accession No. AA900863

<220>  
<223> Genbank Accession No. AA901006

<400> 289						
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tggcaagatt	taaaatgtca	acttggagtg	atcatgcaag	cccatgcatt	ggtgcctgcg	180
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acacaggtac	cacaagacat	tgtgcatgct	ccagtcaagc	aagatgtcca	acaccacana	420
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<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA901107

<400> 290

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atctattcag tggtcacatt cacaaacatg gcttctgcag gttcagtaga gtgccagcaa 120
acaaaggaca gcgtgaagat gtagctgtgg tcatccgtgc acggactggg ctcttggtcca 180
tttagctggc tgtcatgtca aggtttctta aatgccaaacc tcagtgggtt ataaattatc 240
ggccccccga ggatttcagc aagtccagat catccgtctt cgaatccatc tcttggtact 300
gaacttgatg tatcaagacc cctcgtgccc 330
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<210> 291

<211> 412

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA901152

<400> 291

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agcctttaaa cataaaatct ctgtaggaaa tgtcacaaact tagtgatc tgtcatataa 120
ataaatatac actaagatgc acactatcaa cagggtgtcct caacgtgagg ccacaacaca 180
gggacgcagt caactttaca actcaggact ggctggactg gggagtgagg gaggggcagg 240
tcgaggggtg ccgtgggtgg ctgttattgc tcaatctcgg gtggctgaac gccacttgct 300
cctctaagaa gttgggggac gccgaccgct cgggggtcgc gtaactagtt agcatgccag 360
agtctcgctt gttatcggaa ttaaccagac aaatcgctcc tcgtgccgaa tt 412
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<210> 292

<211> 580

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA901338

<400> 292

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agaaaaccga aggacagatc aaattgaaag aattactgtt ataataactt taatttatct 120
tgcattttac agaagtctat gaacgatatt aagaagcacc tccttactcc atcacgtttc 180
tctgacagtt gttaaagtag gcaacgagta tatcaacagc ttgaataccg gtatcttgca 240
aggatttcag aacaatcact cgccaaagaa cttggcagtt tctatcttgt ttttaactca 300
atggtacatc cactctgatg gtaacctgtc cagccaaatc tccaccacat tttgaaaaaa 360
tcaatgggtga ttagcaaatt agttagcttt ggcacggagc tgtgctcgct tgctgtgac 420
agcctggaag ccagttttga tactggccac agagcatcga gaatgacaag tttcacactg 480
taagaaatag agtcgggtgt ccttctgtaa gattgtgtcc ggtgaccggc atgtgtgaca 540
agtgcgatat tccttgatat atcttctcaa gacgttttct 580
```

<210> 293

<211> 492

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA924036

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<400> 293
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aaaatacata gaatgtacca aaaggataac taaaatcttc aacatcaaaa gtggacagaa 120
caatttttct catgttcttt ggagtcttg gtttttgaga aaaacaataa ttccaggagg 180
tacaaggaca attcttcccc aaacgataac ccttaacaca ttttacacaa aaaaaggagc 240
ccaggagaaa ctggaggatt cacggtgtct aggttataaa tatcaattta aaagtcaccc 300
atatcatgta actcaggagc ctctgttcca acccagtgtg ttttatgaaa caaagagaca 360
gggctaacta aaggaatcaa agaacccttc tccaagcact gacaccaatc taactggaca 420
ccctactctg atcccatgtg tccttgtcac aaagatgatt ttaaaagtaa gaaagctgct 480
tgtcctgaaa gg 492
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<210> 294

<211> 494

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. AA924152

<220>

<221> unsure

<222> (1) .. (494)

<223> n = a or c or g or t

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gtgtccccag ccacacacat gggtccctat gaggtggctt cctcagggtc tttctggaca 120
gagctgggtca ggcaggcggc atcccacagg agagtgggtg gagtccttg gcagcacctc 180
acagaatgat ttggttggtg aagcttcgac tcagtcctt atgtggtaga acaatcgagt 240
tcaagataag cacctcagcg gggatccgta ctccgcagcc caggatgggt atggcaggaa 300
gtagctttcc atctttgaag aggtctcgc tgtccatgcg ggcgcggggg tcattgggat 360
tggggtcatt gggagtcccc tctacgcggg cccagcggcc cacagtgtc cccagccca 420
caatgctgtg aaggacacag gtgtgttcct gcantgtggc tccatggagg acaatactct 480
cccgcagacg caca 494
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<210> 295

<211> 292

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. AA924196

<400> 295

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tttttttttt tttttttaac ttatcacttg aagtttattt ttagtcactt ttcttcaata 60
tcatgtaatt tactgatcgc aactgtttat aaatgtaatg ctgggccttt gagacaatta 120
aaaaccttta agtactaaaa ttttacatca tgatttggtt aacttaagaa gtgttatgac 180
gttgagaact aatagattta aagcagaaat gatgacttcc acaagaatca gtcactcctc 240
ccaaacatga gaagggaagg aagacaagga aaaggtgaga cagaagaatg aa 292
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<210> 296

<211> 380

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. AA924236

<400> 296  
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 aactaaaatg ttaaaaaaaaa acaaaccaca ggattcaata ttattcacag attcaggggc 120  
 ctactggcta tcttggaaca ctcaaaaaga gtctgtattg gtgaaacgtg ggatcagttc 180  
 tatctcacia aactggaaag attataattg agacactgta ggcagagttc agcatgaagg 240  
 tgcctgactc acagtaaatg ttcagttcat agttactggg atctactctt aactttaatt 300  
 cctcaaagct ttaagcttct aaatcttccc ctgggattaa aagtctcata aaatgtgtac 360  
 tttcctctat ttcccttctt 380

<210> 297  
 <211> 226  
 <212> DNA  
 <213> Rattus norvegicus

<220>  
 <223> Genbank Accession No. AA924261

<400> 297  
 tttttttttt tttttatggc aactcctggt ttattctcaa ttacaaacac agcaatggga 60  
 agaagaaggt caccaaccag attcgtgtga caggcctggt gggtcacctc agagattcga 120  
 cattgtgaat ggcccccatg gggtcatttt tatacagcat gaagtagcct tgcacctggg 180  
 caagactaat ctgggatgta gctttaagga catgttcagc aaaatt 226

<210> 298  
 <211> 464  
 <212> DNA  
 <213> Rattus norvegicus

<220>  
 <223> Genbank Accession No. AA924289

<400> 298  
 cggccgcaag ctacgcatcg cattgtgtgc caggcgcagg acgtgcaggc ccagcaggcc 60  
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 ggccttcatg cccagaaaag caccaggggc caccgctgta atgaggttcc ggtccaggta 180  
 cagcttctgc agcctgggca aatgtacaaa gacgttagct ttgacgcttc ggagtgcgtt 240  
 cctgctcaga tccagctccc gcagctcgcc caagccacag aagagcgcag gctgcaggta 300  
 agtcagtttg ttgccagcca gcaccagctc gtggagggtg cccagtcctt ggaacactgt 360  
 gtcaggcagg accactagac tgttccaacc caagttgagg tcccaaaggt gactgaggcc 420  
 ctggaacagc ctttctcca gccggcccaa gagggtgctg ctca 464

<210> 299  
 <211> 441  
 <212> DNA  
 <213> Rattus norvegicus

<220>  
 <223> Genbank Accession No. AA924301

<400> 299  
 tttttttttt tttattttaa taaaatagtt ttattttatat taaatgactt ttaaaatgat 60  
 aaaacactta atagatacta aataaataga actggctgta aatctaagtt ctctgatgat 120  
 aaccatacaa ggatccgcct gggctgatta gtttgggaga tgatctggag gttggtagga 180  
 ctctccttca tcttcaatgt aaactgtgcc tctggtttcc aaagttcccc ttgtttctcc 240  
 aaacgttgta tgtctagaaa catgttttaa gaaacaaact ggagaattgt atgggttttag 300  
 agtgcagttg agaagagaat gagggttggt ttgtttaaag tacagaacaa gaaactcca 360  
 ctgcttaact gattatccag aagtgaacaa gaaactgagc taaagggtgt gctgggtggcg 420  
 gagaaaggga gcaacaaaga t 441



<210> 300  
 <211> 441  
 <212> DNA  
 <213> Rattus norvegicus

<220>  
 <223> Genbank Accession No. AA924307

<400> 300  
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 ggtgtgaagg gctctgtgac ttctattttc atgctctggc tctcagtcct ctggcacctg 120  
 tgcgtgaatc gctgcagcaa ggctgggcca acctaaaggcc ctatgcactt tggcatctgg 180  
 accagggaac gtttccagac cccacaaggt gaagtgaactg aagctgccgg tggctccgat 240  
 aaagcgggtc aagtcccgtc ccagcgggtc ctgtgcctcg tccgctttgt cctccgcgtc 300  
 ccctgagaag ttcagcttcc ctatcagccc ctctcccatc tcttctgtca ccatcacgaa 360  
 tcccgcaaac cctggcgagg cagctacatc ttccgcccgc aggccacgac cgcgaaacga 420  
 cacctgcagt ccgtctgcac c 441

<210> 301  
 <211> 355  
 <212> DNA  
 <213> Rattus norvegicus

<220>  
 <223> Genbank Accession No. AA924405

<400> 301  
 tttttttttt tttttctggt tttgcgtttt tattgggggtt tatcatgggc aggaggaaact 60  
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 tctgcgactt tttctttttc tttgtgctgc tctttgtgca gcttgcagca gcctcaggct 180  
 cctcagaaaa tttccttttc ttcttagggg tgatgggggt tgctgcctct tcagggttcac 240  
 tggccacttc ctcttttaggt aaggacttct tttcttagg aacacttatg ctgctagtag 300  
 ccatctcttc aagatcactg gccaaactcct ccttggggaaa agctttcttt ttcct 355

<210> 302  
 <211> 384  
 <212> DNA  
 <213> Rattus norvegicus

<220>  
 <223> Genbank Accession No. AA924460

<400> 302  
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 gtttcatgct ctgaattact tcatccagta gtttgctcac ttctttgtgt ctctgttactg 180  
 ctgcactcat gcagtcctga agtttagctc cagtcagccc actcccacct ggcttgtgaa 240  
 gacagcacag cttgccttcc tcgtccatta ctacgggttaa ggttcctgtg gacagggtgct 300  
 cctcctcccc ggtaggatcg actatcagca aagtgtcatc aaacacagca aatgaagtag 360  
 caactggggt tgctctaaca ttca 384

<210> 303  
 <211> 467  
 <212> DNA  
 <213> Rattus norvegicus

<220>



<220>

<223> Genbank Accession No. AA924767

<400> 306

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tttttttttt tttttttctt ataaaggaca acattttattt ggggctggct tacagggtgca 60
gatgttcagt ccattatcat catgggtgga acatggcagt gtccaggcag gcaagggttca 120
ggaggagctg agagttctat atctttatat gaaggatgct agaagactgg cttccaggca 180
gctaggatca gcatcttaaa gcccacacct acaatgacac acccactcca acaaggacac 240
acccactcca agagggccac acctccta atgtgtcactg cctgggtcaa gcatatacaa 300
accatcacaa gaaggcagaa tcatttttta gtcccagcaa caatgaacaa gaatgggtttt 360
ctcttccaat ctgacatcca caaaatagaa tcccactgta attttctatt gtatacttga 420
tgttatgcaa tgggtcaatta tcttccatt tacttaaaag ccacttgtgt ttcatttcta 480
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<210> 307

<211> 479

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA924768

<400> 307

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tttttttttt tttttctcaa aactcagctt tatttgcctc cattttccca cagtctgagc 60
tcagctcatc tggctttgat ggggtctcaga ggcccagtggt tacagaggcc ggtcacagcc 120
tgctccacca atccccctgc tggccttggg ctccccaggc aggaggacag gtgggtcatg 180
gaggatgaat tgatgataag aaagagtggg cagcaagggtc agaggtcaaa gaaagccatt 240
caagcaatat gtccgacact cctctgcat gccgatcctt gccatacaca ctccagccaa 300
ggcagccttc tctccacat tctgccagcc cacagccgtc caggaccact ccctatctac 360
tcagtccact gcccattag caagggaaaa caacctctct cagatgctac atgaatctgc 420
ttgctccaac ctgggtctag caagaaggga ctaaggttct ggtcatctac aattctcac 479

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<210> 308

<211> 450

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA924793

<400> 308

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tttttttttt tttttttaga cttagtaa atttttcaca ttattgtggt ctcttttaca 60
gctgtttgga ctcatTTTTT ttctttcaat cacacaatat tgtttcacgg aattcacaga 120
attcattaac gagctggtat tttacttccg aggggttttca gtagaacagc atcattgaaa 180
ggatgccaat gagctgcttg gtgatgggccc tcccgccga tcagatggaa gtctagaaca 240
ttattgcttt attagtccta ttaataaatt gtaaatacact cctaggggaac ccacccgggc 300
aggcgccttc cctgtgggcg gtcagatgta tctgatctgt ggggtgtcaa actcgatatc 360
agtctgcatg ttctgcggtc tggctgggtt ctagggctga ctgaggtgga gcactgcccc 420
ctcacattga tttctacatt taaaaaaaaa 450

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<210> 309

<211> 286

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA924993

<400> 309  
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 gtttaaaaca tttaaatcct gtctctgtac atggcgtagt acgtgtgtcc tcccacctgt 120  
 ggggaagggg aaggtgtgga aacagggcct tggagccctg gtgtgtgtgg ggtggggtag 180  
 gtgggcagag cgggcgagtg ggttaaaaca agcatcttgc ttactaacat gaagcctcac 240  
 accctgtgaa cagggatgag gctgcattgg cttgaggggg gcctca 286

<210> 310

<211> 495

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA925045

<400> 310  
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 ctgtaaataa acatattatg aataattaa atcgccattt attataaata ccaactaagt 120  
 taaataatac tatttcacct atctttcccc tttgagctgg agtccagatt ccttctctca 180  
 aattcttacc aggagtaaaa tcttttagtgt tgtgacctct gtacccatct gtacccaaag 240  
 tgccctttta taaactaaat gagacctaga actctgaaag gaagcttctt cccacttact 300  
 gtagtggtaa actgaccttt ctgtttcctg agttgttggg agtacagggt agcgctacca 360  
 gcattaaaaa actttcctgg gatatacttg ctttgtgctt caggcttcag ttcagatacg 420  
 aactcccagg aagccttgga cctagtaggg ggagacgcac taacacagtg tcctgtcctg 480  
 gaaatgtgta tgctt 495

<210> 311

<211> 118

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA925049

<400> 311  
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 gtgggagata ggaccaccaa ccgtgcctgt ccagaacaaa agttggctga cccacacc 118

<210> 312

<211> 428

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA925057

<400> 312  
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 cctgctgtct agggacaagg cctggcactc gcctggggcg gtagggagag tttccacaac 120  
 ctcagtctac ttgaaagtgt ggctttcagc tccacctcgc ccaaagcctt tgggccc aaa 180  
 catggcggag tagcagggat ggttgacagta gggcttgctt tcatgctcag catgaccccc 240  
 agaggtcagt gtctttccac atttctcgca cttcaggcag ggacgatgcc agtccttgcc 300  
 tagtgacgtc actcgctcag cgaaatacac ctccttgctg cacttggggc acttcggcat 360  
 ggcggcacct ggtcctgcac aagtggctgc agctagaagg aagtaggttg tcctcgtgcc 420  
 gaattctt 428

<210> 313

<211> 570  
 <212> DNA  
 <213> Rattus norvegicus

<220>  
 <223> Genbank Accession No. AA925063

<400> 313  
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 atgaccatga tgacaaaggc tgccaggtag gatgtgcgtg ccatccacat gctgacaaag 180  
 cggtagtgtc cccagagac cacattcctc aagaagcctt tgttctcctc attctctgcc 240  
 aggcccttca cactagacat gaggacgtcg tcgtagccca ggaactcgtc cagcagcagg 300  
 cggctgaagc ggtccccgaa gcactgctcc cgcgtggggt cttgatggag ctgttggtga 360  
 acatctccac ggaaagctcc tcctcctcca gctccaggcc cccgggctcc aggtctaggc 420  
 caccgaggcc cccatcacag aactgcagga tcaccgggtg ccggctggag ttgtggcgca 480  
 cctccacccg caggacaccc tcccgtggcc atcggctctg aacatgctcc aagcagttga 540  
 tgggggaccg ggagaagacg atgtgtatgt 570

<210> 314  
 <211> 505  
 <212> DNA  
 <213> Rattus norvegicus

<220>  
 <223> Genbank Accession No. AA925145

<400> 314  
 tttttttttt tttttttgac aagcaacaca ctattttttt taaatcaatg ttccaaagaa 60  
 atcaaaaattt agaaaaggaa aattattcgc aattttacta atggttactc actaatttgt 120  
 tacattgtag caaaaaacaa aagtagggcg cagcatacaa accaaacatg aatgtggaaa 180  
 gtgctagaac aagatgaact tgatctctga cttctagaaa ggtcttccaa gggtcatgca 240  
 ttttacttga atcagcaagt gtttccctga gcgttggtga ttatgtttgt cgtaatgcta 300  
 actagagagg aaggttaagaa gcacgttcta tggtccttgg ccatcagtag tttatgatct 360  
 agctatgcct gggtataaag atgcacttac taattctaag accttaaagc gataatcgcc 420  
 tttgaaagcc aagcatcatg actgttcaat aatcctgccc tcactcgcaa cagctttggc 480  
 gtctcctcta ctgagactgt aactc 505

<210> 315  
 <211> 527  
 <212> DNA  
 <213> Rattus norvegicus

<220>  
 <223> Genbank Accession No. AA925167

<220>  
 <221> unsure  
 <222> (1)..(527)  
 <223> n = a or c or g or t

<400> 315  
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 cagggaccag ccccaatgcc cacatgggta ctgatagcca actggcttct tcccaagatc 180  
 ccagcccac accagaaca gagtcttaca aaagcgaaca aatacattta tcttcctttc 240  
 catcccctgg ccagcagagg tggggggtta acagttcatt ttaaaaaaga caacgactca 300  
 taaaatgaaa acagaagaaa gaatccagag ctggagagct gagatgtggc cctggcgggg 360

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agcacaatgt gcatgggaga ccctttctgc catactcttg gagggggaag cgggtctttg 420
ggctccggcc catggacacc aagcccacga gtcccttgga gctcatggcc acatggtcac 480
aactgcattg acttcttana aaagcatctt aagactgtgt ccctgng 527

```

```

<210> 316
<211> 535
<212> DNA
<213> Rattus norvegicus

```

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<220>
<223> Genbank Accession No. AA925258

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<220>
<221> unsure
<222> (1)..(535)
<223> n = a or c or g or t

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<400> 316
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gaagatgctt cttcccaact ttgggacaaa gaaaaagggt aaagcattct gatgaaaatc 180
atcaagatca agtcaaacc ttataaattc ctacagctaa aaacgtctgt ctggatagat 240
caggacagag gcaggtacc gcccaacttc ctccatcata ccaaaactaa tgaccttta 300
gtcactttca agatagccag tcaccagtcc ctgtcttagc catagtcagg ctacctcac 360
agaggctgct gctgctgcct cagtangagg agggatatct atactgtgtg tagaccaaag 420
gcctggctga agtcccacag aagtagctga tgacaggcaa aggcattgt actgaaagca 480
gttgaatggg atggcgtgag atgaaagtat acagagccag ggctaataca tcaac 535

```

```

<210> 317
<211> 510
<212> DNA
<213> Rattus norvegicus

```

```

<220>
<223> Genbank Accession No. AA925274

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<400> 317
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agccgagacc tagagtttcc tttaaaaaac aaacaaaaaa ccaacccaac cttgtttaca 120
gcaaatgatg actgatttct agtgactttt aattatacgt ttaagactac agatcaagaa 180
ttgtttgttt tccaatcata tattcttttg agattaaaat acaagtgtaa aacagggtta 240
aattagattc accccaatga tttaaaaaac aattccaatt gaaagaattt caaacaccat 300
gtatagaact caggacaaa agacaaccat agaattttt tacctttgag gtagcacaat 360
aatgcttaat tgggtttttt ttttaaaatt attattacaa tgaatttaaa acataacaac 420
aaaaaacgac gaatctaacc tttgtcgaag gtgggctata tgggtttctg caaatcccc 480
atgaggtgag tgacaatttt cactctttt 510

```

```

<210> 318
<211> 543
<212> DNA
<213> Rattus norvegicus

```

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<220>
<223> Genbank Accession No. AA925306

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<220>
<221> unsure
<222> (1)..(543)

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<223> n = a or c or g or t

<400> 318  
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 tatgcaacca tgactgcagc aagaaccaca ctgaatggaa gcaggaagtc tggggctcaa 120  
 gagtcaccag agagtggcag ctgggagatg gcacctcgag gtgcagggtg gaggctaggc 180  
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 gggctggacg gggtcccttc cccatgattc acatcgatgg atgatatgct ggggacccgg 420  
 gccttagtgtc tgttcagcct ctgggctcag ccctatacat actacagcag gtgctgagga 480  
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<210> 319

<211> 508

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA925384

<220>

<221> unsure

<222> (1)..(508)

<223> n = a or c or g or t

<400> 319  
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 cctcactgcg cacacctgcg ggcacctgga cttcacagca gaacgagtgc cctgcaaagt 180  
 cagatccaaa caccagtggt actcttggtg gcgtcagtaa tgtggatgga actctgccag 240  
 gcctgggtcca caggatcatt ttcagttttg ttttgttttt tttttttcag agctgggggac 300  
 cgaacccagg gccttgactc tgctaggcaa gcgctctacc actgagctaa atcccccaacc 360  
 cccattttga gtttttgaaa ctggtttgat cctcaggatt gaacctgggtg cttacccacg 420  
 acaggaaagg gctctatctg tcaccttccc tcccatgatc ttcanaggct aaaaatgcct 480  
 actggaaact aacgacaagg acatttgc 508

<210> 320

<211> 598

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA925541

<220>

<221> unsure

<222> (1)..(598)

<223> n = a or c or g or t

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 cctctactga cctagcattt aaatggaaaa aaagaactgc aaaaataaag acaaaaacaaa 240  
 gaaaccaaca gcataaagga aagaacatc ttcctgctcg gatggagtct tccttcccag 300  
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ggccatttgg gtttttcac tggtaatggt tcaggaagcc caaggtctcc agggcgatcat 420  
tcttggagtc nactccagc agcccagagg agctacgctc gcttttgcct gaaaatactt 480  
tcacagaggt tggccgcttc actcccagtt catcgcagat ctcaaagaag ttctcctcag 540  
tcacctccaa gggagcattg aagaagtgc gaacattgct aaggtgctgg atgcggtt 598

<210> 321

<211> 499

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA925603

<400> 321

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tattactaac actgctcagc gaggcaagcc tgattctacc tccaccggaa ccacctaccc 180  
tgcattctcc tgggtccatt ttgtacccta gtgtcatgac cccagcctcc ttttaagacta 240  
actatgaatg cctccaccca catctgcccc tccaatctta tcatattcct caataagaaa 300  
tatatttgat gttttttctt tacttgacga agtagagtta ttattgcaga aatgaaaact 360  
caatgaccaa ctttaatttt aaaactagaa aagaagaaaa aatgtcatca ataatgaact 420  
tgggtagagt acaacaagga gtatgagtta ttttcaaagg caacatatcc ctattttgta 480  
catatttgca tataaaagt 499

<210> 322

<211> 457

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA925807

<400> 322

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taagtggcag gtgggtatat taaaggtggt ctgttctcat agtttcacaa cacagacaat 180  
tcctagtaca cccttctatg gacaaacatg aatttgctgg tttctctttg taaaagggtga 240  
tcatgataca cataattgca ttatgaggca ggatgatgta atacgtaaga caatgttttc 300  
aagctgggtt tgtagtctt gatctcacat ccatttacag ttgctttgcc atgtgatgca 360  
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gggtttcaaa gatgaacctt caaacacaaac aagttgt 457

<210> 323

<211> 489

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA925869

<400> 323

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ataccctctc caaatttcaa ggtttggtat ctgataatct gtacataatt tgggttaatta 180  
ctgataaagt agaaattaca gtcacgcttt taatgagaaa tgacttggga ttctctggag 240  
ctcttaattt tcttataaac cagggaccag caaacctgtt ctgacgaaga tcacagtaga 300  
tacttagata cttgaggtgc tgtgggtcat gaagtctgtg ccatggccac tccaagccat 360  
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<220>

<223> Genbank Accession No. AA926193

<400> 327

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taaagtgatg tcagtaataa cagagtcggt gtcacagtc ttggcattta cagtttgctt 180
tctgatcttc ctttggtcgg attgaggctt gcagacagac tcctgtcctt gatgtctatc 240
ttctcatctt gatcagagtt ccatgcagaa gtttagagag gttccgtcca tcttttgctc 300
atagatttca tcaaacctct cattctgggc cacagtaaag tggtttttcc aatcacccac 360
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<210> 328

<211> 421

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA926262

<400> 328

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agcgtagaac tgcaactcta cgtaaagtc acaaatgcac aataccgttt ccttgctcta 180
tttaccatagc tgatatatct accctaacag aggtgggtca attacagttt tgtgattgct 240
cccgtaccg tgactgcaca tccaccaggg gccagtcacg agaggacagc ctctcacact 300
cttggttagca tccgctcagc ctacaacact gaagaagaaa gccacactca agacacaagg 360
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t 421

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<210> 329

<211> 512

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA926365

<220>

<221> unsure

<222> (1)..(512)

<223> n = a or c or g or t

<400> 329

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aattccgcct ggcccagct cgcggctcct cagggccaag ctataacaaa cataagggac 120
acaaagcagg gaatcatcag atttggtctc ggaggtaggg gagggaaaca gcaggaatcc 180
aaatgaggac agcctgggtg actggactgg gaggggaagg acttggtcga gtctcctgtt 240
cccaccggg caagagccag ttgctcctca accttcagtg gccagaggc tgctcctggt 300
tgagcctgtg gaagaagctt ttgccaact cgtaagtgt gatcatgat ggcgaggagg 360
gcgcagcctt gatgatcctg nggaggaaac ctgcaaagag tcccctgggt ccagattcag 420
cctggattct ccgaagcagg agccagggtg agtcaactct tggcggttc actctcatag 480
cctccactgc tcccagtgac atttgctcgt gt 512

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<210> 330

<211> 588

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA942716

<400> 330

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gacttgccgc caggggggtt tctcctggat ggcgctgggg cggagaccac tgggctgggc 180
acaggagcag cgggcaccgg cttctcttcc acctgtgcca ggctggcttg gaagtctgtg 240
tccacatttt catgcacatc actttctccc ttgaggtcta agaaatctcc agagcttgct 300
tcagaagagt tactttctctg tgttccaggc gactccgaat cctccctgcc acctgctgac 360
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ttcctcacgg gctgttctgt tggtcatca aaacctaatg aaaaattgga cccaccacct 480
ggaggccgca aaaccggga gctgttctctg ctgttagggg ctacaccctt gaagggtggg 540
gcagtgggtca tggcgcaaag gggcgaggta gactggccct gaaaacgc 588
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<210> 331

<211> 639

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA942726

<400> 331

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tagatgtggc tcagcggagg gaggccagc atggccaagc ctgtgtggaa cacctcacgt 180
actgccctca aaagctgtag gcgagcaaac atctgaccaa agaggtgtgg ccgagggttc 240
cctagaatgt gtacgcgggt atagtatgag ctgaaatcca tgctgagctg caccaggaac 300
ttgcacacca tctccgtgcg aacagggatg tggagccctg gcgtgctagc caggctcaca 360
gtctgggtca ggaggtccag gaaggggaag acactgttga aaagcagcag ccactcacc 420
tgtgggagac aagagtgtct ggaagaccag cccaagcctt ctgcttgtgg ccgttcacgc 480
agtaacactc acctcatcat ggagtaatga gaaatccaga ctgctcacga gcgggaaagt 540
gggatacaga cttgtttcca ttccgtgttt gtaaccctcg aagagcgtgg caaggcgggc 600
acagttatac atgacaaaac tcccactctt cgtgccctt 639
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<210> 332

<211> 589

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA942731

<400> 332

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atcaaaactc tttcagagtt cttagtattc gtggagggtg ctttaaaatc atatagcatg 180
tggaacaccc atgccaatgt ccatggcttc ctatggaaat gtttggggag atacatacat 240
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tatatcccaa agttgtttct ataaataaga ctggtggtta ctgcatgctc cagagcagat 360
ttggaaggaa ttcgaagtga aacaagttgc tcttcctgat gtgactatga ggaaaggaga 420
ggccttgatt atccaagtgc tttgggctgg tacagtcact aacatcccc acttggctga 480
aaactaggaa tgcatattat ttaaagagtt tatatacatg tggatgaacag ataattgttt 540
aattgaaaga gaaacagatg tgaacaccta atggaaatca gaacaaaa 589
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 <211> 452  
 <212> DNA  
 <213> Rattus norvegicus

<220>  
 <223> Genbank Accession No. AA942745

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 tctttctttc tttttttttt ttttaaggcc ttcagataaa aacgaaggat gaaattgtag 180  
 ggggaaaatg ggcgggatgg gggcgtggct gaggaatagg gcgtggctac cgcagagccc 240  
 attcctcaga ctttccgtca ttttctgcca gccctttgcc cctgccaaga gctttcctaa 300  
 accacttttt aaaacctaag gtcaaaacac agccactact ctctcagaga aagaagacaa 360  
 ggaaagggaa aaaaacaaag gtgtcctaac gtaaagcacg aaatgaagcg gggagggggg 420  
 gtcccatccc aaagcaaagg ggatgattgc aa 452

<210> 334  
 <211> 550  
 <212> DNA  
 <213> Rattus norvegicus

<220>  
 <223> Genbank Accession No. AA942770

<400> 334  
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 gccacggaaa cacattcaag atgttggtgg tcttctttgc tgcttgcctt ggggttaaat 180  
 caacatgaag cacacaaaca gaagcatagc tacatttgca gcaaaggccg ctgcaaatac 240  
 aaccccaaag agagggtgggg ctacgcgacg catctcacag caatgcaggg agcctttgtg 300  
 cctcctgcac aaaattagca cattcagggg agacgtgtgc ctcacaaagg gccatgtgga 360  
 aagagttatt cactctcatc caaaaatgaa gacagtctga gggacaaaat tgttcatgga 420  
 ctctgctccc aacgctcccc ccattcccca aacaagccaa tgctcaagac acctacaaa 480  
 gccatgggca aacttgacca tgagcaaaca atatgaatga gaacagaatg acgtaatgcc 540  
 gttgtgcctg 550

<210> 335  
 <211> 503  
 <212> DNA  
 <213> Rattus norvegicus

<220>  
 <223> Genbank Accession No. AA942889

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 tgccatggca tgtcttacc aatttcaggt ttagtgaaga catacaaagc caaggaatac 180  
 aatgtggatc accctctggt gccccatggc ctctctgtgg tgctcacctc tcccgcagtg 240  
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 gccaacattc gcaccgcca gatccaagat gccgggcctg tgttggcaga tgccctccga 360  
 aaattcctat ttgacctaa tgttgatgac ggtctcgtg cccttggtta ttctaaggat 420  
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 cgtgcccagt cagaggaaga ttg 503

<210> 336

<211> 506  
<212> DNA  
<213> Rattus norvegicus

<220>  
<223> Genbank Accession No. AA943131

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<210> 337  
<211> 618  
<212> DNA  
<213> Rattus norvegicus

<220>  
<223> Genbank Accession No. AA943564

<220>  
<221> unsure  
<222> (1) .. (618)  
<223> n = a or c or g or t

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aaaacatgac attaanat 618

<210> 338  
<211> 513  
<212> DNA  
<213> Rattus norvegicus

<220>  
<223> Genbank Accession No. AA943730

<400> 338  
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aggcgcccc cgatggtgcg ggccgcccgt cgtctgcgtt gtggatgaaa tggcagcgcg 360
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ggtgccgagt gaggtgcgcg agctcatgga agccgtgcgc gaactggcac ttctcgccgt 480
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<210> 339

<211> 642

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA943737

<400> 339

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tgactgaaa acaatactaa aaagacagta atatatTTTT attctctgta tcattttacat 180
ccagggtcaa tacctaagga caactgaaga aaagaatttc tgatgttccc tgtcagttaa 240
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<210> 340

<211> 557

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA943785

<400> 340

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gccccagtgc tgtgctggga cagctggatg agggcaaaga ctggggatgc tagtccatga 240
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gcaagcgggc acttggcaca cctccaggaa ccaactatga aaatgttaaa ttcaatcctt 360
aaaaacaatt ccacagaatt tagcctgtgg ctttgtgcat gggctgtggt taacctgggt 420
tgctctgtgg cagatgaggg ctcctgaggg ccttgagagca gcctggcctc agcccaaggc 480
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ggactggctg gacctgg 557
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<210> 341

<211> 554

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA943791

<400> 341

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taaaaaaaaa aaaaactctc atgtgacaca gaaatctttc ccattacttt aacacagcag 180
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caacagagaa aagagcaagg tgtggaggct tccagtgcag aatgggggtcc ctggttgagg 240  
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tgtctacagt ggaaaccaag gattcaaaat gtacaggggc aaagaaactt aagaaaatgg 360  
agtaaggcat tctatctatg gaaatctgta agtcatttcc caaaaggatt ggggaagagga 420  
cccattccta attttacagt cagaactttg ggaccattga acaccttgaa gtccccagct 480  
cctacttcct tacaataggg cagagctgag aactgaacga atcttgatg ccagttttca 540  
agctgactgg gttt 554

<210> 342

<211> 480

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA943800

<400> 342

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atacttccta atagtgcctc tggatctctg aagttatgct ccatacttcc tgccccagct 300  
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[illegible]

Figure 1 consists of 12 histograms, labeled (a) through (l), arranged in a 6x2 grid. Each histogram shows the distribution of the number of contacts per individual. The x-axis for all plots is 'Number of contacts' with tick marks at 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, and 10. The y-axis is 'Number of individuals' with tick marks at 0, 20, 40, 60, 80, and 100. The histograms show varying distributions: (a) and (b) have peaks at 1 contact; (c) and (d) have peaks at 2 contacts; (e) and (f) have peaks at 3 contacts; (g) and (h) have peaks at 1 contact; (i) and (j) have peaks at 2 contacts; (k) and (l) have peaks at 3 contacts. The distributions are generally skewed to the right, with most individuals having 1-3 contacts.

Figure 1 consists of 12 histograms, labeled (a) through (l), arranged in a 6x2 grid. Each histogram shows the distribution of the number of contacts per individual. The x-axis for all plots is 'Number of contacts' with values 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10. The y-axis is 'Number of individuals' with values 0, 10, 20, 30, 40, 50, 60, 70, 80, 90, 100. The histograms show varying distributions of contacts, with most individuals having 1 or 2 contacts. The distributions are generally skewed to the right, with a peak at 1 or 2 contacts. The specific shapes and peak heights vary across the different scenarios represented by the letters (a) through (l).

Figure 1 consists of 12 histograms, labeled (a) through (l), arranged in a 6x2 grid. Each histogram shows the distribution of the number of contacts per individual. The x-axis for all plots is 'Number of contacts' with tick marks at 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, and 10. The y-axis is 'Number of individuals' with tick marks at 0, 20, 40, 60, 80, and 100. The histograms show varying distributions: (a) and (b) have peaks at 1 contact; (c) and (d) have peaks at 2 contacts; (e) and (f) have peaks at 3 contacts; (g) and (h) have peaks at 1 contact; (i) and (j) have peaks at 2 contacts; (k) and (l) have peaks at 3 contacts. The distributions are generally skewed to the right, with most individuals having 1-3 contacts.

Figure 1 consists of 12 histograms, labeled (a) through (l), arranged in a 6x2 grid. The left column (a-f) displays the distribution of non-zero elements for a 1000x1000 matrix, while the right column (g-l) displays the distribution for a 1000x500 matrix. Each histogram plots the 'Number of non-zero elements' on the x-axis against the 'Frequency' on the y-axis. The distributions are generally unimodal and centered around 500 for the 1000x1000 case and around 250 for the 1000x500 case.

Figure 1 consists of 12 histograms, labeled (a) through (l), arranged in a 6x2 grid. The left column (a-f) displays the distribution of non-zero elements for a 1000x1000 matrix, while the right column (g-l) displays the distribution for a 1000x500 matrix. Each histogram plots the 'Number of non-zero elements' on the x-axis against the 'Frequency' on the y-axis. The distributions are generally unimodal and centered around 500 for the 1000x1000 case and around 250 for the 1000x500 case.

Figure 1 is a schematic representation of the experimental design. It shows a vertical timeline of events for two groups: 'Control' and 'Experimental'. The timeline starts with 'Baseline' and ends with 'Post-test'. Key events include 'Baseline', 'Training', 'Transfer', 'Retention', and 'Post-test'. The 'Control' group receives 'Training' and 'Transfer' but not 'Retention'. The 'Experimental' group receives 'Training', 'Transfer', and 'Retention'. The 'Retention' phase is marked with a large 'X' and the text 'Retention'.

Figure 1 consists of 12 histograms, labeled (a) through (l), arranged in a 6x2 grid. Each histogram shows the distribution of the number of contacts per individual. The x-axis for all plots is 'Number of contacts' with tick marks at 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, and 10. The y-axis is 'Number of individuals' with tick marks at 0, 20, 40, 60, 80, and 100. The histograms show the frequency of individuals for each contact count. The distributions are generally skewed to the right, with most individuals having 1-3 contacts. The peak of the distribution varies across the scenarios, with some showing a higher frequency of 1 contact and others showing a higher frequency of 2 or 3 contacts.

Figure 1 consists of 12 histograms, labeled (a) through (l), arranged in a 6x2 grid. Each histogram shows the distribution of the number of contacts per individual. The x-axis for all plots is 'Number of contacts' with tick marks at 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, and 10. The y-axis is 'Number of individuals' with tick marks at 0, 20, 40, 60, 80, and 100. The histograms show the frequency of individuals for each contact count. The distributions are generally skewed to the right, with most individuals having 1-3 contacts. The peak of the distribution varies across the scenarios, with some showing a higher frequency of 1 contact and others showing a higher frequency of 2 or 3 contacts.

Figure 1 consists of 12 histograms, labeled (a) through (l), arranged in a 6x2 grid. Each histogram shows the distribution of the number of contacts per individual. The x-axis for all plots is 'Number of contacts' with values 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10. The y-axis is 'Number of individuals' with values 0, 10, 20, 30, 40, 50, 60, 70, 80, 90, 100. The histograms show varying distributions: (a) and (b) have peaks at 1 contact; (c) and (d) have peaks at 2 contacts; (e) and (f) have peaks at 3 contacts; (g) and (h) have peaks at 1 contact; (i) and (j) have peaks at 2 contacts; (k) and (l) have peaks at 3 contacts. The distributions are generally skewed to the right, with most individuals having 1-3 contacts.

Figure 1 consists of 12 histograms, labeled (a) through (l), arranged in a 6x2 grid. Each histogram shows the distribution of the number of contacts per individual. The x-axis for all plots is 'Number of contacts' with tick marks at 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, and 10. The y-axis is 'Number of individuals' with tick marks at 0, 20, 40, 60, 80, and 100. The histograms show the frequency of individuals for each contact count. The distributions are generally skewed to the right, with most individuals having 1-3 contacts. The peak of the distribution varies across the scenarios, with some showing a higher frequency of 1 contact and others showing a higher frequency of 2 or 3 contacts.

Figure 1 consists of 12 histograms, labeled (a) through (l), arranged in a 6x2 grid. Each histogram shows the distribution of the number of contacts per individual. The x-axis for all plots is 'Number of contacts' with tick marks at 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, and 10. The y-axis is 'Number of individuals' with tick marks at 0, 20, 40, 60, 80, and 100. The histograms show the frequency of individuals for each contact count. The distributions are generally skewed to the right, with most individuals having 1-3 contacts. The peak of the distribution varies across the scenarios, with some showing a higher frequency of 1 contact and others showing a higher frequency of 2 or 3 contacts.

Figure 1 consists of 12 histograms, labeled (a) through (l), arranged in a 6x2 grid. Each histogram shows the distribution of the number of contacts per individual. The x-axis for all plots is 'Number of contacts' with tick marks at 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, and 10. The y-axis is 'Number of individuals' with tick marks at 0, 20, 40, 60, 80, and 100. The histograms show the frequency of individuals for each contact count. The distributions are generally skewed to the right, with most individuals having 1-3 contacts. The peak of the distribution varies across the scenarios, with some showing a higher frequency of 1 contact and others showing a higher frequency of 2 or 3 contacts.

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atattcagac	atgcgatata	tagctagaaa	tccaccttca	aagaaatagg	gtgttaaaaa	300
atgaaaagtc	tctagaaaaa	tcacaaatta	ccaccatccg	tttcaattct	atcgggtgct	360
atttttctca	cacggcaaat	ccaaacccca	tgttttctctg	ggcattttccg	gcattttcaa	420
gcccagcgca	cactgtaaga	gccactgtct	taaggaaatc	taaacagaag	acagggttaat	480
aaacagtgtg	gtcagtgtct	tttacttcgg	catgctacct	ccaatctcac	cagaggatat	540
cttttgttcc	ccctcacttt	agcctgccag	gggatgacgt	tgcccaaca	catttttcaat	600
gtttttcttt	taacagttaa	tataattcca	ggatgcaagt	ccatttcttt	ctagaagggtt	660
cctaqqacac	ccattqaaaa	qtcaaaaqca	atqaaaqgaa	aaqqq		705

<220>  
<223> Genbank Accession No. AA945238

<400> 369						
aaaataaaagc	cagtttttatt	ataaaaaactt	taaaatgtga	tgtaaaagac	agtcatggga	60
acactgtata	agaagaaata	ctgtgaggaa	gtaaatggtc	acaagtaa	tttacattgt	120
ccgtgaagtt	taaaaataat	ctttatagta	aagtgtcttc	agagcaccat	catttgaaca	180
gaagatattt	tacatatcag	agttcatctt	tggccttttt	cctatggcat	gtgcaaggga	240
agaggtcatc	ctcagactgt	ggctctaccc	tcttcatacc	ctctcgaatt	tgaggctcac	300
tcacttqtaa	attqqcataq	ccctqgaaca	qcttqaagta	ataacagaat	at	352

<220>  
<223> Genbank Accession No. AA945533

<400> 370						
aggaacagaa	aagcattttca	aaaggccatt	ttaatgcaaa	caaaatattt	taacacatag	60
caataaagca	agttcaactt	ctatcatcca	ccacactaga	tctgatcaca	caagaaaata	120
cagtgtcaac	agatatctgt	cccattcact	caaccttaat	tttagatat	tggggagatt	180
gtagatagat	agatatagat	atagatagat	agatagatag	atagatagat	aatatagata	240
cagatacata	tagggataga	tagatgatat	atagatagat	agatagatag	atagatagat	300

 $\langle 220 \rangle$



<223> Genbank Accession No. AA945591

<220>

<221> unsure

<222> (1) .. (505)

<223> n = a or c or g or t

<400> 371

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accagcgctc aggaggcaga ggcaagtgga tctctgggag ttccaggcca gccagggata 120
catagtggga cgggtctcaaa aattatttga acagggtactt gagacatgtg agatgatgat 180
gtggacagat atgactagca ccctcaggtc ctccccaggg tacagcaaaa ataatcacia 240
accaacattc tttaatcaga aaggcacttg agggccccta cagagtctta cacaagagca 300
gccctgcgga ttccactca gccaccctcc cttcccatcc ggctcagagt tcatcgtgac 360
ctgtggaggg atctgctccg ggcttgatga agattccttc catggccttc cacgtgttgt 420
gtgcattggc actangcatg ccatgcacct catgctgccc acggattggg ttaccatact 480
gttcaacagt aactgacagg aacac 505
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<210> 372

<211> 556

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA945596

<400> 372

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ggcacgtctg ttagaatgca cgtttcttca ggagcaggac gtgttccagt ttctgggaat 180
ttgagaagat ctggcctctg tctctgctta caggtatgcc gtgggatcac tggagtcaca 240
gttttcaatg tgtacatgcg actgtatgcc agggtaaact ttctgcaggg gcagcaagggt 300
gccagcttc gctccctttc tgatagagcc cttatactta attggcttaa tgtagaaaat 360
tttgacgcag aaacctcttc ccgacagtcg gacgccatca ttgatggcgt ttttgtttct 420
atagggtttc tcttgcccca ctatcttccc cgtgaatggc gcatacacca cagatccatc 480
tgagcacagg acgtccacac ctggatgatg cctttggggt ctttgagtaa agtactgtcc 540
acagccatag ctgtca 556
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<210> 373

<211> 615

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA945601

<400> 373

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aaaacaagtt tattttattga aagaatctga aaatagtaat aaggccttca ttaacaatta 60
acaaaatttt aagatattaa caatatgaaa cattaagaat ttacgtgaaa attccatgtg 120
tttgagatca gtctgggtggc agctgcttct gtacttgtca acactcgctt tttagatgca 180
tggaactatgc ttcagacctt gctctcctct ggatcatagc agagcctgct gtgcgcagtc 240
acagatgaac agcacagggtg aaccgtgggg atgagccacc atggcttaac agcactcaag 300
ccagaccact tggggctgca cgggtgcccc gtaggtccca actttaacag gtagaagaaa 360
gctcagagta gtcggttcta tagcagctga caaaccttcc ctagaagcat gagacaaaag 420
cctgacttca cctggaaagc cagtcaaaga acaggcagtc ctccctactc ctgccgtaag 480
aggtgagcac aaaactgaaa gcggatacct agctgaggtg ctggggccga cactgaccc 540
cacaaaggct ccagggccag tgtggcactc acgtgcgtta cttgcactac atacatgtgt 600
tgcacacagg ctcca 615
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<210> 374  
 <211> 520  
 <212> DNA  
 <213> Rattus norvegicus

<220>  
 <223> Genbank Accession No. AA945704

<400> 374  
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 tcttgtgttg gtagtggcaa cttacaatga gtcgaatggc cagagcacca ggctagctcc 120  
 aaagaacaga tccattccct cccaggtct gactcatcac agccctggac aggcagtagt 180  
 tgacagggac tgctttcatc caagtgcaca ccagctttgc atggaattat aaaaacatat 240  
 ttacatacgt tccacggtgc tcctttcatc agaagcaaag gcccttttat caaaagggat 300  
 tatatctagg gctgtgcaaa attcaaaagg actgtatcct tttgagaaag ttgagtccat 360  
 tacacacaca catacacaca cacaaaaaaa gtcacctgca cctctgagaa gtgccagggtg 420  
 tggccaaggg ctacctctgg accagcaagt actgtgactg taaggcagcc atctgatttc 480  
 aagagagcca cagggtccagg ggatctctg gctgtccagg 520

<210> 375  
 <211> 594  
 <212> DNA  
 <213> Rattus norvegicus

<220>  
 <223> Genbank Accession No. AA945708

<400> 375  
 aattcatttta ttaaattcac ttactagttt attaaagtct ttaaagagag gaataaagac 60  
 atcgccattt attttgcaaa gtatttcttt aattgctgca agaattttgt gagaaattca 120  
 atcactctgt actccaggga agatgagtga aagtgaatgt taacttacaa ttttaatat 180  
 ctcatataaac ctaaataaag attttaagtc gatacaacat gagttctttt aagtgaccag 240  
 aacatcttga atatgtttta cagatgtttc tatgagcaaa ttaaaacaca aagaaaatta 300  
 aaatagattc acattaaaat atctaaacag taagtgtaac actgtgagta ctagtaaaact 360  
 ctacatagtt tgttatatatt gaacaaacac taaactccag gatggacgac ttattaacaa 420  
 aaacatacat aagtcacttc taaaaatgac aaatccaact tttaaatgct aaaaattccc 480  
 ccaagttagt ttttaggcac cagagaagtt ttctttcaaa aatttcaggt tttttttccc 540  
 acaagcaaag tagaaatatt aattgggact tcagctttag agaaatttag ctcc 594

<210> 376  
 <211> 591  
 <212> DNA  
 <213> Rattus norvegicus

<220>  
 <223> Genbank Accession No. AA945751

<400> 376  
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 acaaaaaata taaaatgtac taaacagtgt cattatacac tactttgaaa attgtcacat 120  
 gtttctaaga aacaattact ttttatgcaa acacagcttg gctttaagac aatgacaaaa 180  
 gttatgcagg ttacacagtg gagtattact caactcccaa ctacgacagt gccttttacag 240  
 tctctcttta aacagcatag ggcttcaatg aaaacagagt gcaattaatg tcatggcttg 300  
 taaagtctga ttacagaggt acagcaaccc agcagtcact ccagttagtt tccacacaca 360  
 cagtaaaagg acagtgggct agtgacacac actagctcca tcttgtagat actgggtcaag 420  
 caaactcagc agaaatgaaa aatccattct tacaagtttt ttaaaattac tcttcacaac 480  
 tgctgtatga aaacaaccac agagacagtt tggaaagtct tctggaaatg cttacagata 540

tacagtacat tgccaatggc tgggacgggt gaagggacat gaaggcctcg g 591

<210> 377  
<211> 489  
<212> DNA  
<213> Rattus norvegicus

<220>  
<223> Genbank Accession No. AA945879

<400> 377  
aatgaaaaag taaatattcc acttttaaatt tcagttacaa tttcaagggg gagataaatt 60  
catacactaa ctttatgtac agaaacaagt taaactctga aatggggaaa tagttacttt 120  
tagtctcact ctctcatcaa tactgacgtc agacgaggag actttcagat ggggtgctct 180  
gtcttcagtt gtgttcgtta gcatggtttc atccttagca atctccattc atcaagatgg 240  
gactgggagc aagccagcct ccatgtctag acacaaacct ttcgcagctt ccttcctctc 300  
gcctgtctcc taggaaggag cagtccccac ccgcatgatt ctgaagagtg tgttgatggt 360  
gttactgca atcgcatccc gacaagcact gatcacctgg ttctttggct ttccaactcg 420  
cagacggcct gccctctgga ttgcttggtt caccgccttc aggtttccta acagttcaat 480  
gtggatggt 489

<210> 378  
<211> 596  
<212> DNA  
<213> Rattus norvegicus

<220>  
<223> Genbank Accession No. AA945904

<400> 378  
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gtatgagata caattttgaa gccagagaca tggctcagaa ggtaagggca cttactgggc 180  
aaatctaacc acctgagttt aatacctgag tcccacagtg ggaataaaga accaactctg 240  
taaagttgtc ctcttacctc cacacatata taccatggca cacatatgcc cacacgcaaa 300  
aaacacacat atgtgcacaa taataaataa aataataaaa agaaaagccc tttaaaacaa 360  
ttttgaagca taaaggaaaa atgcccttat ttatttaact taaatttctt accccttaag 420  
tattcacatt aatacatctt atagtacatg tgaaatatga caacatgtga gttatgcaaa 480  
gtatactaga ttaaagagca agtcaaatac caaaggacct aacaattttg gaaatgttac 540  
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<210> 379  
<211> 560  
<212> DNA  
<213> Rattus norvegicus

<220>  
<223> Genbank Accession No. AA946011

<400> 379  
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tgatggataa cagaagcaat aagtgaaggt ggtaatactg cccatgacca taacctcatg 120  
gtcagaaacc cagttctaaa gaacagctgc tgggtgctact ttattgcatt caacctatga 180  
aaggttggtt gtgggattga agtgactcac cgggaccctc tcaccccaac tggacacacc 240  
tcttgctgcc tcttttggtg tataggaaga caggtgggct tctccttgag gacactgaag 300  
tcacacagca aagtagcttc ttgccctcaa tgcccacctc acctccagag cgctgagctc 360  
cgcatgggag cagaacagca aggatgagtg tcttgcttcc aaaagctttg ggcagacaca 420  
aagacaatct atctcatctc agaattgttt tcctcaagaa gtctcatgta tcttggtg 480



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aaaatccttag ccataattgt aaacttcaaa accttttact ttacttttta catgcatttg 180
tgtgtgtgtg tgtgtgtgtg tgtgtgtgtg tgtgtgtacc atatatgtgg tactgtactg 240
tatgtgaatg ggtatctgaa aacaatgccca gttctctcct tctactgtgg ggtacagaga 300
atgaactcag gtcacaaagc ttggtggcaa tcatcccccac acactgaacc atcttgctgg 360
ccacttctaa ttttttaaatt taccatggct ttccaatgga cattttaatt gattgggcac 420
agatatgaga gacagagaac caacttttgg ctgcatttaa agcatttact aatctg 476

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<210> 383

<211> 465

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA946189

<220>

<221> unsure

<222> (1)..(465)

<223> n = a or c or g or t

<400> 383

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tccctgctac aactctgtc tcagaaaacg ctcaaagagt agggccagca tgtggttcag 180
gcatgagggg acctgccctt cctcccccag gatgaagaac agggctgggc cagccaaggt 240
gcttcttcca ctgggtccaa gagccagggt accccaggct attccaactcc tgggctcttt 300
ggggttggcc cccggtgct cctccaagcc acacagttaa ggccagagtt tcaactttcta 360
atgcagccca tctctgacag tctctgttcc ctangcacgg tggacacagc aagacacagc 420
acacagacta attccccagt gtttggtggg acacgaaggc aggac 465

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<210> 384

<211> 532

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA946361

<400> 384

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acaagttaga atcaagaaag aaaagacagt ctggggggcca accggagagg tgactaaaat 60
ccccaggccc caaatggagt ggaagtaaag ggaagagtag aaaaaaagt caatgtaaaa 120
aaacaaaaag agctccctct tcttccctcc ccatggaggc tggagggcgg accacggcgc 180
tacaccccca gccttaccac ctagcttaaa taaattaaaa cctcaaaaca gggcccttag 240
aagtgaacag gacagctgca gctcaggggg cttggtgcca ggcataatgcc cacacccacc 300
catacccttg cccaccccc atcatcctca acagggacat cacacccaac agggctagga 360
attcaatctt attttgtctg tgtccctgca ttctcccca ctgcagagcc agctctccta 420
tggaggggtg agatgaagaa gcgtcacagc aagggaagag tggggaaggg tgggtacagg 480
gtccggtcct gcggagcctt cctgccccat ctggcctggc ccttagcccc ag 532

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<210> 385

<211> 658

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA946368

<220>

<221> unsure  
 <222> (1)..(658)  
 <223> n = a or c or g or t

<400> 385  
 gaatttaaga acatcttttaa tgttagaaac cagttatttc tgggtgatta taaaagcaga 60  
 atatattacc acaaatacat atttaaagcc aattctagct tttgtaagat tctatatcat 120  
 aatccattta ttataaatta catcttttaa cactataaca gctctctgaa gttacattag 180  
 ttgtggctga gcagaaagag aaaaacctac tcagttttca aaagagctag gcagcctgga 240  
 acttgacaac atacttaaaa taaagagcta aaatgtgcta aaaatagttc atttcatggc 300  
 gaggaacaga acatataagc tctgtgtaag aaagtaaaaa gaaaaaata tctgtgatac 360  
 ctggccttgt tgttgccaag gacaccagag agggagaggc ttaaacaata tattagcaat 420  
 gggtcatatg tgaattgttc atttttcatc cttaaactct taaaatgatg taatacttat 480  
 gacatatcat gtgctgacag tcacaaggaa catttgctat aaatgaaagg gtcacccag 540  
 acatgataac agtttacttc gatgaggaac aaagcgtttc ttagaatata tacattcttg 600  
 aaatttgcca acangaaaaa aaaatcagta aatcagaacc aaagaagata attagttc 658

<210> 386  
 <211> 527  
 <212> DNA  
 <213> Rattus norvegicus

<220>  
 <223> Genbank Accession No. AA946379

<400> 386  
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 acgtatttgg tactcctgat ctgtttatat taaaactgtg ggggaaacga atatctcggt 180  
 aagcgctaca tttccagtcg atcgcacctg gcacggaaag cgtcattgca tcttaggtcc 240  
 tgcttggtat tataaaagac taatttgaag tcctaggatt caaaataaac atcatttgga 300  
 ataatagata tatacatcaa aaatacatct agaaaggcat tggttagtgc tattaataag 360  
 ctgtgtgctc aggtactctt ctctttacag gcgaaacccg gtggaaatgt ttgaattccg 420  
 tttctagcaa tttgctcttg gggaagggtc gtcgaaagtt acctgggtcat attcttactc 480  
 ctcactcca ctgtccatgt caatgtctac ttcctccgtg tccacgg 527

<210> 387  
 <211> 594  
 <212> DNA  
 <213> Rattus norvegicus

<220>  
 <223> Genbank Accession No. AA946428

<220>  
 <221> unsure  
 <222> (1)..(594)  
 <223> n = a or c or g or t

<400> 387  
 agatgtctgg acagcaaagt ctttatttgg aggtagttaa tgaacagctt acgcttattt 60  
 catttacaaa tgaaatttgg gaataattaa aaaaataagt taaagactcc aatctacata 120  
 cacacatcca ttaactattt tctcctaggt cttagactag aacacaaagc aataagagct 180  
 gtaaccttac tttgaatagt gaggaggatc ataatacataa cttggccttt atctgggttt 240  
 accacgaaag cagttagcaa acagtgccgc acagttatgt tttagtcaaa aatgaggttc 300  
 agacacaata tgggtccata cggtcctatc tctttgtgac atcataagca ccttatattt 360  
 tttaatattt gttcaatgga actcccggg gtcatacttc tcaaaatcca tccaacaag 420  
 tgggtgcatgg ctgcaaatga tgatgcttgg agaggaattt agctgtctac tcagtctgca 480

aatcacaatg tgggtggcctt agtagttcta atgacttacg tgccaggaaa ggggtccccct 540  
tccccatttg cttaaaaaaga tctagctgtg ccagtgccan aagttactta cttt 594

<210> 388

<211> 680

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA946441

<400> 388

gggtcaagtt cttagtagac agcagtaatt attccaaata caatttataa attaagttaa 60  
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tgtctgctca ggttgccctga atgggtttttt actcagtacc accaactctc tgggaactgt 180  
gagtgttaact gccagatcat aaattgttta cattcttttt gttaaccatt ttattaagaa 240  
aaaaaggtag atggacataa aatatgatta aaaactgctt ttccatagat ttctgaactt 300  
gcaaaagagg cttcagttta atgtgaaaat aagcactttt tttttttaca aaaaaattaa 360  
cgtattttatt agcaagggtca tttacacagc taggcccctgt catttcattt gttgattttg 420  
tttttaatat agattctcaa taaaacaaag agcatagagt aaatttaggt aactagctca 480  
atgccttcac gtagtaactt cgtaaggctc tctgaagtaa ggctgtgtac tttgttgtgc 540  
tccattctgt tcttgccagc atagaactaa atacaatgca ttcttgctac acacagcttt 600  
acagaagggt atttatgaag ttttagaagg ggtgaatgat tattttcact cagggttgac 660  
ttaactcctt taagcaatct 680

<210> 389

<211> 529

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA946466

<400> 389

caagggttaag cgtctttttt aaagatatga gaggggttaa tagcactgtc atgggtgactt 60  
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tcttctactt cacagtctaa gtcctgtgcc ttaactccct gcgtgggtggc ttgttaaggg 180  
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caactgaggt gttcaattgc aggccacagt tgactttcag cttttctgtt ctccctaata 300  
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ggctacggta ggcctgcagg taagggtggc cagaggaaat taccatgcc atggcctgtc 420  
ccatgacatc aattgggccc aacttcccat aaggctcttc tagcaaaggc ttccaccact 480  
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<210> 390

<211> 557

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA946476

<400> 390

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atttgagaag ccaggaaatg ttctttcaag ggtaggtcc gtgcaaacac caagtattct 120  
gccactaagc tacatccaca accgtctagg ggagttttat ttaagaggca aatgtggaat 180  
aagccttgaa catgggatcg aattaatgat gaaattccat ggtctcaaaa agctacatgg 240  
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<400> 393  
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 tcttgcaaac acctgctggg gctgtatgta tagctggatg gagcccttca ctgggttctag 180  
 accacgcacc acaagcatca cagggaat aattcgtgta cctctgaggt aaattctaca 240  
 aaaccaagag cattcagaca catgcttttg atcacaagga gactgccttg agaataatt 298

<210> 394  
 <211> 408  
 <212> DNA  
 <213> Rattus norvegicus

<220>  
 <223> Genbank Accession No. AA955443

<400> 394  
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 ggtggcagga gaagtggctg ggagatgtgg ggcattgtct ctaatgggtt aggcattggt 180  
 tttcagtcct cctcccaag ctatagggcc tgaatcagaa gggacgacgt ggtcacatgg 240  
 aattgacctgt aaccttacac gggatattct ttacccatgg ttgatcaata ggggctggac 300  
 tctgctctga gccacccctc agtgtggctt cattattggt catccctatg tcaataacac 360  
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<210> 395  
 <211> 495  
 <212> DNA  
 <213> Rattus norvegicus

<220>  
 <223> Genbank Accession No. AA955540

<400> 395  
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 ctgactcct ccatttagaa aataggaacc acggtttcat taagctgtgg ctcccttttcc 180  
 ttttaacctaa gcttagttta aggaaaactt cctcgtaca attatgtaac taactttaat 240  
 caatacatag taattatgca agcctcaata cagtagctaa ctttttgaaa atgacttaac 300  
 acaaactatt acaactacc ttctttgaaa atttctctat gcaagtatca gaacagattt 360  
 acttctcttt taattttcat ttcctatttt ttgggtatgc cttagaaaag taaaattaca 420  
 tataaacatt gtcaactact ttatttgtaa agtcaagata atggattatc tcctctaagt 480  
 aattaaattt tgcaa 495

<210> 396  
 <211> 387  
 <212> DNA  
 <213> Rattus norvegicus

<220>  
 <223> Genbank Accession No. AA955564

<400> 396  
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 gctttctggg ggaacgcagc gcagtcacac gacaaaatac aaaactaggg ggctctgtct 180  
 tctcatacat catacaatat tcaagtattt tttttatgta caaagagcta ctctatctga 240  
 aaaaaataa aaaataaatg agacaagata gtttatgcat cctaggaaga atggggcagt 300  
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387

<210> 397

<211> 348

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA955729

<400> 397

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gcaaagtatg actgatttca agtgagtttt aattaaacgt ttaagactac agatcaagaa 180
ttgtttgttt tccagtcata tgttcgtttg agattaaaat acaagtgtaa aacagggttaa 240
agtttagattc accccaatga tttattccac aagtccaatt gatagaattt caagcacgat 300
gtctagaact caggaccaag ggacaaccat agaattcattt tacctttg 348

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<210> 398

<211> 445

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA955927

<400> 398

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agtaggtgaa cccaccacgt gtgcacatac tcaaagccaa actgaatttc agtttggagt 180
aaggaatgtg accagggact aaaatggtgg cctagattgg tcaggaaaat agcccagttc 240
ccacccatca gagaggggat cgaggtcttg gccactgaga agtttcaagt attctacctg 300
ttgggttcct atgccgagaa gctgaggcac gtccacagga acccaaagtg gctactacta 360
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aatttggtca caaacctctg tgccg 445

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<210> 399

<211> 306

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA955986

<400> 399

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gtacgtcact cgcaaggaca cctcagaagc tcagcacctg ggctccatcg gcagcttgag 180
tgaggtagaa cgtggctgtc ccgctgtact gctcctgtat gtgatgcatg acaagggggg 240
caacagagggc ctccagcaac gtgacagtgc agccgccgaa gccaccgcct gtcattgcgc 300
tgccgt 306

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<210> 400

<211> 392

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA956170

<400> 400

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tggaacctga cccacatagc actgtcactg tgaagatcac agaagaccaa caacctccag 180
attggttaatg ttgacttttag cgtctactca tatagccagt gtcccgcgt gtcctcccag 240
cacagaagct catcctcacg gaaccaaaga gcgatctctc tctgagcact ttccaccgaa 300
tactgccat gaatcacatt cttgccaaac tccacacaga aatcaccacg gatcgtaccg 360
ggcgtggcgt cccctgggtc agtggcccct at 392
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<210> 401

<211> 283

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA956247

<400> 401

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ctggctggag acccatctgc agttcccacc aagttctggg atcaaaggca tgcaccacca 120
tgcttcgctg tttttacttt cttaaaggag aattaaggag gagtaacaca agaaatttca 180
acaaaccaga tgcttttggt atgaaaagcc aggtttttct caccagcca ggcatttaat 240
ttgatagcca gaataaaaac aggaccagag aatgaggttt tcc 283
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<210> 402

<211> 501

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA956278

<400> 402

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cgtcttctctg gagggcaaaa atggtctgga cctgaaatc ctaacccaaa taaaaaaaac 180
cacaaaactg aggttccaaa aaagttaaag aatcttaatt ctttatagaa aagagagagg 240
agccaaaggca aatggggagg tatcccaggg gtgggggaaa tgccccctac ttggtgggat 300
accctctctc ttacatagct gcctctgatg ggacaagct tggggtatag catttaaaaa 360
ctccacacc ccattttatc aaaaccaaag agaacaaaaa atttcccttc cccccacaaa 420
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aagtgaatcc agaacaagag a 501
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<210> 403

<211> 379

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA956301

<400> 403

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gctgaaggct tcacaccgta atgctcaaga gtgatatcaa ggggaaagggt gtatgtaagt 180
gcttctatct ccacagacag aagatgcgaa gtaaacaaaa tagaatggat ttaacaccag 240
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gtgttccac ggggaaaaga cgactttaaa gctcatcagt tgggtagaag acaacagagt 300  
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 tggaatgccg acgagagca 379

<210> 404  
 <211> 426  
 <212> DNA  
 <213> Rattus norvegicus

<220>  
 <223> Genbank Accession No. AA956431

<400> 404  
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 tcttcaaagt gtttcccttt aacggaaact tcattttata gaatctaaac attaaagggtt 180  
 tgaaaaacac aaagccagaa tccagcataa gtcaaggaaa tccactcata ctccaggccc 240  
 ttctctccca ggaaccagca ttgttatatt atttccattt agtagaattt gatctaattt 300  
 tgtaattctt ctctcttctg gtgtaatttc aaactctgtg acatcttcca acaccatatt 360  
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 gtgaat 426

<210> 405  
 <211> 446  
 <212> DNA  
 <213> Rattus norvegicus

<220>  
 <223> Genbank Accession No. AA956723

<220>  
 <221> unsure  
 <222> (1)..(446)  
 <223> n = a or c or g or t

<400> 405  
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 acatggcccg ctacagcttac acagcccagg cccacgtgct tagggacgga accaggcgca 180  
 ggccaatctg aaatcctggc atttgggagt gggaaggaa atcaggaagt cgccatcttt 240  
 ggttacatag caagtttgaa gcgagattgt tgcaaatgag atcctgtgtc aattcctcct 300  
 ctctctcttc caaggggaat tacatcccga aatcacgtga gcattanggg tcatccccct 360  
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 gtctacaaac tgttacacag taactg 446

<210> 406  
 <211> 425  
 <212> DNA  
 <213> Rattus norvegicus

<220>  
 <223> Genbank Accession No. AA956864

<400> 406  
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 acaagagtgt ggggctgaac aacagagctc tggaaggca ggagcctcct agatagcaaa 180  
 gggaatgtgc ttggagtttc acttcgggtcc cagaatgaga cccagcagt tctcccagaa 240

ctcgggctga tccagtatac tgcctcttca ttctccacca ctgacagaga taggccaggc 300  
 cccagaccac agtaaaaaaca attgatcccc agagggttaga gctactccct acccccgacc 360  
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 ccagg 425

<210> 407

<211> 540

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA956910

<400> 407

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 tgatgggtcc tcacaggcat gaaccaccaa ttcgagccca ttctcaagt ccacttccca 180  
 gccatctgca gctgtgggga gcccaggaaa gacacttcaa gtggaatgaa tctcaaacac 240  
 cttctcctct ggcagcgtgt aaggggccag aggatgtaca tcaaaagctt aagacaatta 300  
 aaatattaag tgccacagga aaggatcaat gataagcagg agctgtagtt ctcaagtagg 360  
 aagctactat ttacacaacc tcacaacctt aacaaatata agacgaagag ggctgggcag 420  
 cacggcttca tttgctcccc tctcgccttc tgataaacac ctcgaaatgg agaccgccga 480  
 gctgacagca aacgttctat ggagagaatg ggggtggggtg cgagtggggg cacacgcaca 540

<210> 408

<211> 386

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA957003

<400> 408

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 ttatcaccaa cacaaggaac tcttcgaagt taattgcgtt gtcactattg acgtccaatt 180  
 ctttgaacaa gctttcggtt tttttattct gcacaaactg agggcactca gtagtgacca 240  
 ttttcttgaa gtcacccctg taaagggcct ggtgattccc ttttatacca aaataattgt 300  
 ggtaaacttc aatgacgttg ctcaaggcct tctccaattc aattgccatt gtcgataaaa 360  
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<210> 409

<211> 421

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA957071

<220>

<221> unsure

<222> (1) .. (421)

<223> n = a or c or g or t

<400> 409

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aggatggacg tggagaaagg caagattgaa gacactggag gcagtggcgg ctccatttcc 180
atcaaaaccc agtttaactc tgaggagcag tggacaaagg cgctcaagtt catgctgacg 240
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tacgggatat ttgcctttaa gggtttacat tttgtttggg ttggaaagat gctttaaatt 360
aaatttgggt aatattaaac cacatgttta caatanaana aaaaaaaaaa acctcgtgcc 420
g 421
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<210> 410

<211> 392

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA957202

<400> 410

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gagattacaa aactggctat gtacatgggg catcctgggt ttgagtcgtc tgtgcacaca 180
tagtgggcat aggaagtctg gggctctaaag ctcaagcagg gatagggtga gcgtagactg 240
gggcacccca ccaggtagag ccgtcccca cctcaagca tcatcaccat ggagaccagg 300
ctccagggaa accccctagg tttctccata gagacagatt ggcacttagg gatcgccaca 360
aatggggcac tgcgatttct acaaagacag at 392
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<210> 411

<211> 265

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA957335

<400> 411

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tgctgcgaac cgccagcccc tccagtccag ccccttccag ccagctctca ccaggcctcg 180
cggctctctc atgagcagcc gctgaccgg tatcagtccc actatgtaca gatatatattac 240
aaggcaaaaa gaaagcctcg tgccg 265
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<210> 412

<211> 557

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA957410

<220>

<221> unsure

<222> (1) .. (557)

<223> n = a or c or g or t

<400> 412

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tctatagtca aactgtaaag aagttcagat gtaaagaaaa atgaaaatgt aatttcttca 180
taaacgttct gttactacta atcacatatt ctcttgtaaa ccctgaaaaa tttccctgta 240
aagcaaataa tatatatata atatacacat attatatata tatagtgtgt gtataaagta 300
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ttggtagctc cccttcccaa gagatcagct gttttcctta atcatctctt attagtgtcg 360  
 acaaacagct aagatacata ttactttgag aattaaatac ataattgtga aattcaaaca 420  
 agccaaaggg caaaagcact atgtggatgg cacacctgng gtacatcacc agagtatctt 480  
 tctttctgcg ttgccacctc cctcttttgc agactgactc tcaccaaacc cctcttttat 540  
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<210> 413

<211> 454

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA957433

<400> 413

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 agggaggtcg agcgactctc tcaagattat ggtgctcata aatggagcca aggatgccag 180  
 ccaccgtgct gccatgctgc cctcggaact ggagccattg gttactcttc tegtgtctat 240  
 gacgatatac ctgacaaagg caactcaagg aggggaaggt ttctttggat gacagctcag 300  
 gaatacagtc cgttgttggt ggagaggtgt ggctgcaaga gcaaggaagc tcacattgca 360  
 tccataatca ggaaccagag aacagggagt gctatgctgt gtcacaaaaa gctcagccag 420  
 ataaaagtgc tcagccaaaa ccaaaaaaaaa aaat 454

<210> 414

<211> 337

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA957452

<400> 414

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 tcggcgaggt atacagaaag ctctgcgttt caaaaaacta gacgcttttag taacaatatt 180  
 acaaaggctt tagcttcaaa aataaccgaa aatgaaaaaa ataaactttt aaagaattag 240  
 catcataaaa ttaattttatt ccaagtaaaa atacaaaata atattatgac gttgaccaga 300  
 tatgaaagtc cctcccagaa acaactctag taatgat 337

<210> 415

<211> 555

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA957708

<400> 415

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 ctgtaagatt tttaatgaac aaaagagtta aatacaaaact ttcatatgca aaatagatga 180  
 ctgtaaaacc ggcaacctca gagccgagca cgaatctctg cgaaggctca gtggggctgg 240  
 agtagagcat gctgctgagc cagacttaat tcagcttcat atatatttaa aaaaactctg 300  
 aggaaaaata ggcttaaatt gaggagcatc tcttgaaata cagctcaagc cagcccttac 360  
 cactgtgagc gcaggctcac caacctcggg tttgacattt atggtcacag ttactttgaa 420  
 tccagtttca tgaggaagcc aagctacttc agttctagag aagaaagtct tgaagatgag 480  
 tgtgccctgc tgtgaagact cacggaccac gttccttggc cactttccat gaactgtgcc 540

cgtgtcatag catca

555

<210> 416

<211> 497

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA957906

<400> 416

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gtcaagtaac aaacgctcca gggagtttcc tatagatata aattatgcaa atatccattt 180
atatcttcat ttacaataat caataaataa gagcgcacat tcgtacattt tttttacaaa 240
gatccctttg ttttttttat aaagctataa ctatgcacag ctaaataagac aaaataagcc 300
ttgtaccaca aaataacatt ttgcttttgt ctccaaccgt tctgcaactt tcaggcacia 360
gccacgaggt cctcccactg tgccattaag aaaacatcaa gtctgtcaac tatatcccag 420
gccaaaagac aatgagacac cggtcagtct tccaagggtg tactctgaac agcgtcctgt 480
atccaggcct aacaacc                                     497
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<210> 417

<211> 525

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA963369

<220>

<221> unsure

<222> (1)..(525)

<223> n = a or c or g or t

<400> 417

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tatccttctt taaatttttt tgctgtttta aagttttttt tacaaagagc ccttatgata 180
atggtcactt ccattgtact gtcattcacc taacagcagt agagatccca ggagtagcac 240
ccaaaactca ggtgcccac agaggacaga agcaacagca gaataatatg ctgagcagta 300
caaaaanaaaa aatcagacaa aaaaacaaaa cctcaccaca caattgtacc tgagtgcacat 360
aaaccggtaa aagtgtgact ttgctttttc atttttctct tctttttgtt ctttggctctg 420
ataagaaaat gaacagtttt gcgtgtggca agtcaggtaa taaagatcag tctccagttc 480
agaaccctaa atcacaccta caaggctgct gcagcactgt ttctt                                     525
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<210> 418

<211> 328

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA963372

<400> 418

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ccagccctcc tggggagaaa gtagcttccc cgtgctccaa ggactaagcc tctcctcaac 180
cccaccccaa cctcgtgtcc cagggcccaa ggcttcttgg taggcctctc tggaagtcag 240
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tccgcgggct ccctgaggat aggggttttc ctgcagctga gctggggtttt ttggggggagg 300  
gggtgtgtgt ccacagtctt tctcttct 328

<210> 419  
<211> 345  
<212> DNA  
<213> Rattus norvegicus

<220>  
<223> Genbank Accession No. AA963703

<220>  
<221> unsure  
<222> (1) ., (345)  
<223> n = a or c or g or t

<400> 419  
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gtttttttgt tgaaaggagt gggcggtggt gtgggggacc gggatgaggg cagaaccccg 180  
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gggagggggt gaggcangag tgacaagctg gggaggggac ccacctcagt cnccagctcc 300  
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<210> 420  
<211> 477  
<212> DNA  
<213> Rattus norvegicus

<220>  
<223> Genbank Accession No. AA964004

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ctttgggaaa aaaaaagtct caaaaattta cttcccttgt tgcaaaagtg attttgaaat 180  
gccatattat tcattaagca ttaattaaag aacagcagga taattactag gatcatcaat 240  
attaccagaa acattagatt gctccagaag ggggcaactt agcttgaaac tataattttt 300  
ctcaagtagt gctgatcaga gtcggggcag ggggaagacat ccaaaatgac tcttaggggt 360  
tgtaacttta aactattggt tggaaacacg ctcttcattt tttattttat taaggaaaga 420  
caatgggact cactttgacc cagtagttat ccagcttctc ataggaggga agtgacc 477

<210> 421  
<211> 187  
<212> DNA  
<213> Rattus norvegicus

<220>  
<223> Genbank Accession No. AA964139

<400> 421  
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taaaaat 187

<210> 422  
<211> 281

<212> DNA  
<213> Rattus norvegicus

<220>  
<223> Genbank Accession No. AA964181

<400> 422  
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<210> 423  
<211> 531  
<212> DNA  
<213> Rattus norvegicus

<220>  
<223> Genbank Accession No. AA964275

<400> 423  
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tccaccacag aggtgctaata gtgtgtgtgt ctctagaaga ggtaagtggg tgtctgtgtg 180  
gccatccgca aaggggacag aatggacggg cttgtaggat ccaagtctga aacgacagca 240  
aattatttcc actataaatt ttccaattcc atgtaacatg cctgttggtg aaaagattcc 300  
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tgcagcatgg ttgatgatgc gttccctttc tgtcacagag aactgatggg tatctgcgga 480  
aatcttgtat gtgtgtagct ttgttggcac aactgtaatg aaatattgga a 531

<210> 424  
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<212> DNA  
<213> Rattus norvegicus

<220>  
<223> Genbank Accession No. AA964302

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<210> 425  
<211> 438  
<212> DNA  
<213> Rattus norvegicus

<220>  
<223> Genbank Accession No. AA964336

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 tggctcacac agttcaattc atcagaactg tgctcagtag ccaggtgtcg aattattgca 240  
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 tcaggaccag aaagtcagta ccagatttta cagtcacatt tatggaatcc ataacaaact 360  
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<210> 426

<211> 363

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA964368

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 gttacacgat gagagcaaca cttcattttc cacctcctag gaaaatattg gttagataag 180  
 gcaaaggacg ggcagctact gaacggtgat attaaccatg caagaacaac acatagggtgt 240  
 gcaataaaca tcattgctaa atcttgggtt gaataggcaa gggataaaat ggattttcagc 300  
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<210> 427

<211> 477

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA964379

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 acattcctct tggcgatagt gtaaaccattg ttgttttgca acttgctgga aactgtgtca 300  
 gcgttttaa atgactcctt aatctgaaat tggagctcat tttcattggg aatatacctc 360  
 cagctcgcaa ggaagacctg gcgttccatt ttgccatctt ctacaaaaag cacattgagt 420  
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<210> 428

<211> 498

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA964455

<220>

<221> unsure

<222> (1) .. (498)

<223> n = a or c or g or t



[illegible]

<221> unsure

<223> n = a or c or g or t

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attgggggaa	aaccacaatg	tagtaggatg	tcacttaatt	aaactcgtac	ttgattggct	180
agttgtttta	gttacaattt	caagtcttat	agatacagaa	ttctactttt	tttccagaac	240
aaacataatat	gtccttaaag	acagtggggg	agacaacaga	tttttaactg	ctgagcttct	300
tactttctaag	gagaacagtc	aacattgtta	cttcttgtcc	ttcacagtct	ggaattcatg	360
tgggtcatta	gcttctccaa	tttgattgct	anggctatgt	ttcctttaat	cttcaacttt	420
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<211> 404

<213> Rattus norvegicus

<223> Genbank Accession No. AA964892

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aacgaagcgg	ggtgtgttta	cgcaaatccc	tgtaaaggcac	tttacggttt	tcatagtggg	180
cagtgaggta	cataggatat	aattctaggg	ttcgttgctg	ttaacaatac	aaaaggaggg	240
gagaggagga	caaggaggga	gtagcaccat	gttgtagcgg	cggcagaggg	gggcatcact	300
atgttcttct	cagtcacact	tggcagcggc	tgacatcgct	gcgcagctcc	cctgccttca	360
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<211> 380

<213> Rattus norvegicus

<223> Genbank Accession No. AA965031

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aacacttata	gtcatcaaaa	atagtgaata	aaaaatgcct	ttgaaaacct	ggaaaaaaaa	180
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ctgtggccag	gccctcggtg	gccacagcag	cctgctcccc	gagcaaaggg	agccccacaat	300
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<211> 201

<213> Rattus norvegicus

<223> Genbank Accession No. AA965075

<400> 434  
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 tggttttctc ctgttttctc tggcctcacc cctgctgcca gtctcctttg atcctgttgc 180  
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<210> 435  
 <211> 498  
 <212> DNA  
 <213> Rattus norvegicus

<220>  
 <223> Genbank Accession No. AA965122

<220>  
 <221> unsure  
 <222> (1)..(498)  
 <223> n = a or c or g or t

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 ctcttggaat tagtagatgc aactgtctca ggcagggttag actggagaag caatttcacg 180  
 ataaacccta cagaatgaga aatgtacaaa gttgttgggt ggctgctggc ctcttgacctc 240  
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 cgaataggca catgggtgtg tgcccagttg ctgtggtttc cccctcaggt tccatagctc 420  
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 agtccccgag aacctgtg 498

<210> 436  
 <211> 519  
 <212> DNA  
 <213> Rattus norvegicus

<220>  
 <223> Genbank Accession No. AA965190

<220>  
 <221> unsure  
 <222> (1)..(519)  
 <223> n = a or c or g or t

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 atgcccacta gatcatcaca atgcaaggaa ggcggaaggg aggagatagg gccagggggg 180  
 gaaagcagta aaaagcttag atttcaatta agggctggta agtccctttt ctcttcaagt 240  
 atcacgcatg tgtaccaa ataatcagta attaaaggcc atttcttccc acaccacag 300  
 ccgagtaatt gctaaaccaa gagccctggc cactcctcag gtgagcaaaa tgctgcacac 360  
 catggctccc caagggccat cacaccatcc aattcctaaa gagctggcca aggtgttcag 420  
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<210> 437  
 <211> 414  
 <212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA996451

<400> 437

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cagtgggtgt cgggtgtagt gagaagaccc agcatgggct gccgtcctgg tgggggcctg 180
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gcacttcatt tgccaatgag actatgctac tgtcaggcta ccctacctag cctaaagagc 360
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<210> 438

<211> 258

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA996727

<400> 438

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cagtcggtca agcaggacat agatgcggag cccttttcaa atgacacagt tattctgaaa 180
gtttaagggt ctacaggaac atacaaccaa ggacttcatt gtggagagga gaccagattc 240
aatctgcct tcccgggt      258

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<210> 439

<211> 203

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA996782

<400> 439

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catcttataa aagaaaggat ctgtagaagc tgagcaatgt gtgcagtgcg ggcggctccc 180
agtagaagtg ccactccggt aac      203

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<210> 440

<211> 440

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA996883

<220>

<221> unsure

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<223> n = a or c or g or t

<400> 440

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 gaggaagaag gaggactggt ggtggcgctca tggggcaatt tgcccactga tgtgccacat 300  
 ccttagtcct tctaggcaaa ggganaggta acatgttcca tatcgaagtc cacagcagct 360  
 aaccgcattt gaccttggga attctaggct ggacttggtg ggggtggaat agcacagttt 420  
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<210> 441

<211> 158

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA997009

<400> 441

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<210> 442

<211> 513

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA997048

<400> 442

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 gtgcaaagta tgtgaggctc cagccttcta tgcccgtgca tcttgctaca ccttagccaa 240  
 gctcctagtt aaccacgaaa gcaggaaaat tgaaattatt ctgggttttt gggctttaca 300  
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 tctttctttc ttttttttcg gagctgggga ccgaaccag ggcttgtgc ttcctaggca 420  
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<210> 443

<211> 436

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA997068

<220>

<221> unsure

<222> (1)..(436)

<223> n = a or c or g or t

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 aaaactaata ctgttttagcg tcgtcttttg agtctatacg gtcaattttg agtcaagttg 240



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 tacgcattct ttttcatcaa agacatgggt gcattcccat agtagtgtaa aggactgtct 360  
 ggtgtgtaaa agttgtactt aaaaccagca aggtgcactt cactgcatat gtgaaacgcc 420  
 aaggtagag cgataa 436

<210> 444

<211> 396

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA997237

<220>

<221> unsure

<222> (1)..(396)

<223> n = a or c or g or t

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<210> 445

<211> 221

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA997323

<400> 445

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 gatcatgtcg ctgccttccc cctctgcaac cctaagccag tccatgccac cggatgtata 180  
 tcacgcactt tacaaaacaa tcctgaagcc taatcaaata g 221

<210> 446

<211> 468

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA997345

<220>

<221> unsure

<222> (1)..(468)

<223> n = a or c or g or t

<400> 446

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<400> 449  
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 tgggtggcgg ccctcaagggt ttangaggca gaagagccag agccagctgt tacagtacca 300  
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<210> 450

<211> 460

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA997699

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<210> 451

<211> 484

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA997711

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 aacatggatg ggccagctct ctaatagatg gcctacacgc ccacagatga gcaggaggaa 180  
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<210> 452

<211> 491

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA997721

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 tacggttcgt gtcacaaaact gcattgctgg gcagtttccg ttccatatgc tgtgccagca 180

ttaaacacca cacagatata aaactattgt aaataaaaaca ttccagccag gactggcata 240  
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aatgtcatcc ttagtcaaaa ctccagagtc tgctaattctg aggcctacat ggtccaaata 360  
caacagcctt acacctccca tacaatatatt aaaatatatt tagctttcaa atgcatttat 420  
aaggtagatc catagtggaga aaataaagtc ttaaaactta aatacaaaaag tcaccaagta 480  
aaaacttgaa g 491

<210> 453

<211> 425

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA997746

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ttgagctttt ccaagtacac gtgcaggagc ttctggatgg agtctctgga gatgaaactg 180  
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cacctgtgga gtatttgggg ccatttccca ctctttgccca catgttcttc aagtactgag 360  
atatggactc tcctagagag ttcagaaaac cagaatgaaa gcatttgggc agctaacgtg 420  
ggcta 425

<210> 454

<211> 422

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA997763

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<220>

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**<220>**

The figure consists of ten small histograms arranged horizontally, each representing the distribution of the number of non-zero elements in the vector  $z_k$  for  $k = 0, 1, \dots, 9$ . The x-axis for all histograms is 'Number of non-zero elements' ranging from 0 to 10. The y-axis is 'Frequency' ranging from 0 to 10. As  $k$  increases, the distributions shift towards higher numbers of non-zero elements.

$k$	Distribution Description
0	Peak at 0 (~8), tail up to 7.
1	Peak at 0 (~6), tail up to 6.
2	Peak at 0 (~4), tail up to 5.
3	Peak at 0 (~3), tail up to 4.
4	Peak at 0 (~2), tail up to 4.
5	Peak at 0 (~2), peak at 1 (~2), tail up to 4.
6	Peak at 0 (~1), peak at 1 (~2), peak at 2 (~1), tail up to 4.
7	Peak at 0 (~1), peak at 1 (~2), peak at 2 (~1), peak at 3 (~1), tail up to 4.
8	Peak at 0 (~1), peak at 1 (~2), peak at 2 (~1), peak at 3 (~1), peak at 4 (~1).
9	Peak at 0 (~1), peak at 1 (~2), peak at 2 (~1), peak at 3 (~1), peak at 4 (~1), peak at 5 (~1).

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<213> Rattus norvegicus

<223> Genbank Accession No. AB006461

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<211> 1902

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. AB010635

<400> 480

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<211> 1356

<212> DNA

<213> *Rattus norvegicus*

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<213> *Rattus norvegicus*

<220>

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<213> Rattus norvegicus

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<223> Genbank Accession No. AF012714

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<213> *Rattus norvegicus*

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<223> Genbank Accession No. AF013144

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<211> 669

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<213> Rattus norvegicus

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<223> Genbank Accession No. AF016387

<400> 486

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<211> 6331

<212> DNA

<213> Rattus norvegicus

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<400> 489

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<212> DNA

<213> Rattus norvegicus

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<213> Rattus norvegicus

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<223> Genbank Accession No. AF039890

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<220>  
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<211> 1607

<212> DNA

<213> Rattus norvegicus

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<212> DNA  
<213> *Rattus norvegicus*

<220>  
<223> Genbank Accession No. AF072411

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<210> 500

<211> 2465

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. AF072892

<400> 500

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<211> 519

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AF079873

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<210> 508  
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 <213> Rattus norvegicus

<220>  
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 aaccctcgtt tagccattca ttctagtccc taattaagga acaagtgatt atgctacctt 360  
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 <213> Rattus norvegicus

<220>  
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 agaaaggtaa actccaagca agacaaagcc aatagaggct taagttcatc accaacaagt 180  
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 acttcaatac acatgtgaag acatagaaga aaacaataaa aatttacaat ccaatcagga 420  
 tataaacatc ttttatatca tagaagttgt caattatcta tgcacatata gtttagatttt 480  
 agcagtaacc aaacagttgc ttataagttc aacaaaatta cagatgtttt tcagcatttc 540  
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<210> 510  
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 <212> DNA  
 <213> Rattus norvegicus

<220>  
 <223> Genbank Accession No. AI008160

<220>  
 <221> unsure  
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tcgctcactg agaatgattc ctcaagggtta tcacggaata cggtgataat ttgttcttct 240  
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 ccatgtcctg gatataataat gttggctttg acttttagta agtcttttag ggagttcatg 360  
 taatcagaga ggtcttcaaa tatcgttggtc ccttctccta ggatgcagtc nccagaaaag 420  
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<210> 511

<211> 539

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI008396

<400> 511

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 aataagcttc ccaggcagct tttctgtaca tctcagctgc ttccaggcgg ttgctgctg 240  
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 gtcacccgtg gtcaccatgg tatgcacggc gactaccatc gaaagttgat agggcagacg 420  
 ttcgaatggg tcgtcgccgc cacggagggc gtgcgatcgg cccgaggtta tctagagtca 480  
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<210> 512

<211> 454

<212> DNA

<213> Rattus norvegicus

<220>

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<220>

<221> unsure

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 caaggcctcc tgtcctggag cccctgacta ggtcgttcct anggtgctag cagcatgaag 300  
 ggagtgggca aatctgtagg caaggacatc aggttgggca gccgagagct caggcccatc 360  
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<210> 513

<211> 570

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI008699

<400> 513

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<210> 514

<211> 448

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI008773

<400> 514

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cgtgggtggt gtctcaccg ggagtcacag ggcagggttg acgtgtgatg gcctggctgg 180
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caacgtggct cttgtatggt gctccggagg tctagtgtct cttgtggctc ccctgggtag 300
gtgtctcttg cggctctatg gccacgggt gtccaggcgt ggcgttagta tgccagggtg 360
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gtgatctccg tgggtggactt cggacaaa 448
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<210> 515

<211> 479

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI008787

<400> 515

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aaaaccagca aaaaactcca gttgtcta atgatgaatgc tgagaatagt tgttttgagt 180
ggctgattac cggcttgtaa aaaaaaaagt ttgcaaaaagg ctaaaagtaa aatttaattt 240
ctttacagaa aatagcatta aggtggtaag tagcctttgc ctttaacaag tggaactgat 300
tctgcaaggc gtagatggag tgggacaagt ggcattcagt tcacaggcac acagctcgtg 360
ctcaaactgc tagcacagat cccagcacag gacatctggt taggtcactg ctgaactttg 420
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<210> 516

<211> 444

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI008813

<400> 516

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tcttctcaca gacagggatt agaaagaggc tgcttctgga tcctaaggct gtgggtccaaa 180  
 tcaggagaga agccatcgat cccaagccag ggtgtagctg acagtgctgg ggtccaagtg 240  
 ctctgctggg aagagctggg gctgacagag ccaagactgt cccctccct accctggact 300  
 ggtggtcagg tccagcccta ctggaggcag gttctcaggc tccttgtggc ctcagcctag 360  
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<210> 517

<211> 478

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI008838

<400> 517

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 cactagggcc tatagtttgc tgtcagttag accaggtctg gtcttgacag taaagccacc 180  
 atcaaaagct gcattgagaa cttcatccag gcggacagtt gtacttttgt tccaaggaag 240  
 ctccaccata agttccaaat aatttctagt cagagcatat tcaggcattg actgaggcat 300  
 ttttttgagt ctttttatct gcttgacaca gactttatga gcctgttctg gcatactaga 360  
 tgttcttatt tttttctcca gcatgacaat gtcattatta tcttctctt gctcttcac 420  
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<210> 518

<211> 467

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI008919

<400> 518

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 agcctgtaac ctggctcaca acttggtgtg ggtcaagagc tgctattgca aggtcgccctg 300  
 tgcttggtcc tttcccctgg ctcaaatgct tgcctaacct atggccacct tccctggcaa 360  
 cctgcgtccc cagggaagag gaagccactg ctccattac acgccttcac agcgaagggc 420  
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<210> 519

<211> 486

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI009026

<400> 519

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 attagccaga aacttctaaa tcccagtgtg atcttcttgt ggcatTTTTT caacaaataa 180  
 tgcagaccaa atcacaagat ggccacctca atggctacat ggtccttagg ttaatgagca 240  
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 ggaaagtttg ttttgaatac cacaggacag aaggacaggc agctcataac tccagtggaa 360

aaacatatag gagagctgag tggcaacagc aggcactgtg ataacctggg ctgtcaaagt 420  
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<210> 520

<211> 630

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI009096

<400> 520

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gtgcgcaagg tgctgcagct gctccgtctc cggcagatct tcaatggcac ctttgtgaag 420  
ctcaacaagg cttcagttaa catgctgagg atcgtggagc cctacattgc atgggggtac 480  
cccaacctga agtcagtaaa cgagctcatc taaaaacgag gctatggcaa aatcaattaa 540  
aagcgcattg ccttgacaga taactccttg gttgctcgat ctcttggtaa aattggcatc 600  
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<210> 521

<211> 458

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI009115

<400> 521

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acaaggggccc cgtgtcccca atacactatg gtaatgag 458

<210> 522

<211> 358

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI009321

<400> 522

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 <212> DNA  
 <213> Rattus norvegicus

<220>  
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<210> 524  
 <211> 487  
 <212> DNA  
 <213> Rattus norvegicus

<220>  
 <223> Genbank Accession No. AI009341

<400> 524  
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<210> 525  
 <211> 485  
 <212> DNA  
 <213> Rattus norvegicus

<220>  
 <223> Genbank Accession No. AI009481

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 aagca 485

<210> 526  
 <211> 511



<212> DNA  
 <213> Rattus norvegicus  
  
 <220>  
 <223> Genbank Accession No. AI009492

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<210> 527  
 <211> 634  
 <212> DNA  
 <213> Rattus norvegicus

<220>  
 <223> Genbank Accession No. AI009654

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 atcaaaagaa tcccctcctg atataaagtt tagtttctct atcatatcaa aataaaaacg 180  
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 ccaaaatacc aaattccaaa tattctagtt ctcagctttg accttttggc aaagttatca 600  
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<210> 528  
 <211> 495  
 <212> DNA  
 <213> Rattus norvegicus

<220>  
 <223> Genbank Accession No. AI009676

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<210> 529

<211> 500  
<212> DNA  
<213> Rattus norvegicus

<220>  
<223> Genbank Accession No. AI009677

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tgatatggaa agcatgttat ataaacattt ctacaacaaa aacatgcggc acaaataaaa 180  
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aagcctgctt ggaagaagca agctgtgctc atgatttttt tcttcctttt gggctgaacc 420  
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<210> 530  
<211> 547  
<212> DNA  
<213> Rattus norvegicus

<220>  
<223> Genbank Accession No. AI009752

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<213> Rattus norvegicus

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<223> Genbank Accession No. AI012174

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<210> 553

<211> 385

<212> DNA

<213> Rattus norvegicus

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<213> Rattus norvegicus

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gggaaaggga tggtatttcc atgaaaaatt ccttgagtaa tgtttttcta cactagatgc 480
ttctgaatcc aaccagcggg cgggcgggat tccagtaaca atgtgtccat tgtaaccata 540
gacgataact cggagtgtgc acacacagag acacatgact cttcgagata aatattttca 600
tagccaagca gaatacttta gaggtatccg acctcc 636
```

<210> 555

<211> 636

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI012356

<400> 555

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ggatgttaaa gtagttacag caatatacaa aaacaaacaa caacataaaa caaccacaa 60
taatataaat ttttactacta gaaagtatac attggaattt gagtgcagtg accaggacag 120
aataaaagcc actgtactgg gaggccaaagc aaactgcagg catggctggg tgaggttggg 180
gacaagtggg gccaaaggga ggggaagtgg gccgttccaa gggtcacta tgggtgatta 240
accagatac agacttccca gaacccctga ggtacaacac ctgccccaga gaagccctca 300
ccttgttcct ggggtccccag gattggaagc catcaacatg cccacgcctt gccttcctaa 360
ataccctttc agtttatgag ttcagcttat tgtgtaacta aagaacctgg ccagggaagg 420
gagagcaatg actgcctcga agcagaaggc tggggtgggc aaggcaagca gtttgtcttg 480
gagacaatgt cctcactgcc ctttaattcag acactgggta actggagaaa aacaattcca 540
cagacagatc agctgagtaa ggtggctttg agtcaactgaa tctagccatg ccctgtatc 600
aaggggaggt tgccttgaac cactcagtg tcaagt 636
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<210> 556

<211> 523

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI012498

<220>

<221> unsure

<222> (1)..(523)

<223> n = a or c or g or t

<400> 556

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cactcttagc cagtttatta agccagggtc tcaccgtgga tccagaaggg agaaggcagt 60
agatcccgtg accctccttt ctcagctctc accttctcca acaactcatc tacagcccag 120
ccccaggac aagagccccg gaagcatggc tggcgttagg cataaagaca agaggccaca 180
gcttgaatca gcagcgtcaa gggggcaggg acactggaca agaaaggatg gctctagggc 240
acctgtctca gggcttgtcc tgagcccatg ggtccaacag agcaagagac aaaggaccag 300
tgggctgccc tagggctctg ggctacagcc ggccctgtcc agcgaggctg gcatgcagct 360
ccagggtact gcggaagagc agggacaggt gcaggcctta ngtgctgtta ccctgttcct 420
gttcaaagag cagcatggca agctgggtgc gggagccaag gcctcaagca gctctggcga 480
cagcgggtgat aaaggtcctc gctgagccga gcgctgcatg gct 523
```

<210> 557

<211> 610

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI012574

<400> 557

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aaaatacctt aaaagaacag ataaagtact tgagggttaca tatccagaat tgaaaaagaa 60
tgaataaaat ataaattaat tgatcacata gctattttgc cacattagac aagtttttaa 120
aaaatgcatt tcaaaaacaa taaaaatagg aactgagaag aaaactttct ttctattgct 180
gtctttttcc ggaaagtctt cctcggagct ctaacatttc aggtttacag aaagtacctc 240
catcaatatt taaaatatac cacattttgt ttccaaatca gtccatttga gacattttaa 300
aaccagatga aataattcag tgcaactaa agcttcaagt tgaaaatccg agaggcaaag 360
tcacgttcaa actgcaggaa atgcttctgg aactgaacaa ttagaaagt cacattatga 420
agaactcttt gcatgtgtcc ttgggtgtgc gaaatactga gttagcaaac agacctctgg 480
aggctctggc tagggctctg tgttgactg tgggcagagg gaaggtagaa aagggctaata 540
aattttaatt gtgggtgcaa gattaagtta agcatcaaaa tggtgggatc tgggtccaga 600
aaatttggct                                     610

```

<210> 558

<211> 631

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI012589

<400> 558

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ctgccttaca aactttatta gtctgggaaa aggggggacaa ggagttcctg tcccttcgctc 60
cactactggt taccattgcc gttgatggga cggttcaaat ggtcagggga ggacagaaag 120
gccttgatct tggggcgggc actgaggcga gccacatagg cagagagcag ggggaagttg 180
tccaggcagc caggggccag gacttggtgg accagcagca ggtccagcaa gttgtaatct 240
gcaaaggaaa tctggttacc cacaatgaaa gctttgcctc cctggttctg ggacagcagg 300
gtctcaaaaag gtttcagatg cccaggcagg gccttcacat agtcacctt accattctca 360
tagttagtgt agatgagggt accatatttg catcgaagggt cctccacccc atcatccacc 420
atatccacca aggcagcctc cttctggtct ttcccataaa gccctaaga gcgaccagg 480
tgctcaaga tggcattaga ttggtaaagg gtgaggtctc catcttcaaa cttggggagc 540
tgcccataca gacaagtgga cttgagcgag ctttgaagcc agacatctat ggtaaccacc 600
tcctccttcc agctctggcc ctggtcagcc a                                     631

```

<210> 559

<211> 467

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI012747

<220>

<221> unsure

<222> (1)..(467)

<223> n = a or c or g or t

<400> 559

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agcaaagtct tttattcaaa agcttctcag caccatcgag ttatcagaaa gaatgagcat 60
cactttttct cccacccaa cccccaacgc agagacagac gttaaagcat tcaatgggggt 120
gccctagtga tgacagttga gccctgacg aggtttaacc tggcccaggt gagccccaca 180
gttcagaaca ggaaggaaac atgtcagagc cgatcagcct tcccttctcg agctattagt 240
cacatgagac aaccttggtg aagttgaatt cagcgactgc caggtaggaa ggacagtgc 300
ctgtgcggga gcatgcagcg ttgagagttc aaatcctagc taaccctccc taatctactg 360
taggaacaag gagcccagga ctggtttgtc tccacacacc tcagccgctc atcttactgt 420
cttaccacan acacaaagac catgaccgtg gacaactaca tccaatc                                     467

```

<210> 560  
 <211> 522  
 <212> DNA  
 <213> Rattus norvegicus

<220>  
 <223> Genbank Accession No. AI012802

<400> 560  
 ggggaataaat actttaaaacc tttttctctt ataaatatgc attagaacat ttgacaacac 60  
 aagctaaggg ctttgaatta acttaaaatt agactaagtc ctgcttttagc agcaggacag 120  
 tcagttaaaa gtccctgtcc ccgtgttcct cagtcgccag gcaccttaaa ctggctcttc 180  
 tccttgccga tggccctcat ggtggtcaca gggtcggctc ctccagcgtg ctgctgcacg 240  
 gtcttctcct tcaactctcat gaaggggttg taagtgaact cctctgccag ggtggatggc 300  
 accgtgggct ccccgatggc attcttctcc ttggcccacg ccagtttctc ttgaacggcg 360  
 gtattgccgg gctccacatg gcgcgcaaac ttaaggttgt ttacggtgta ttcattggcca 420  
 cagtagactt ttgtgtctgg aggaagccgg cctaagactt caagcagcgc cttgtacatc 480  
 tcgtctgcgg ttccctcata gaacttccca cagccagcaa ca 522

<210> 561  
 <211> 615  
 <212> DNA  
 <213> Rattus norvegicus

<220>  
 <223> Genbank Accession No. AI013011

<400> 561  
 gatttttagga cgtttattgt tacatttatt taattttttt gcagtaatag atgaggcaca 60  
 aatacctcct gcctctccaa cactgcaaca aaaaggacaa tagtcaaggg taacagtga 120  
 attaaaatta aaagtaaacc aaagcctaag gcctgggaga aaacctggct acaatctagt 180  
 gtagaaactt gtaaaggact ccagcctcgt ctcccgactg caccacttca cagatcacag 240  
 ggtaggggtca cagagtaggg cgtcctgaca ggacacagcc aggctcagct cgccaggatg 300  
 ggggcctctg cccatccacc tgtgttctgc tcagctagct caaggtcaca tcttgctact 360  
 cacatgctgc cggctttcaa agctacatca tctggtcagg ctgtcagagg gacagcgctc 420  
 tccttgccaa cccacactc tcctcggtca cagtggcccc cagcagcagc tgggaacagg 480  
 ttgtgtgttt ggcgtctcag cactgacaga tacatggggc acctggcaag ggatgctcac 540  
 tgtgtgtgga cctgaaaccc ccaaggaacc ctgaaagggt gctggtccct ggtactaacc 600  
 tggcctcatc ccctc 615

<210> 562  
 <211> 602  
 <212> DNA  
 <213> Rattus norvegicus

<220>  
 <223> Genbank Accession No. AI013044

<400> 562  
 atgtgttttt tttttttttt tttttcaatt ttaacacttt attgcaatta ttcaagtctt 60  
 tccactgtt tacaaaatgt tcatttttat gggaccttta caagtttgtc ttcacaatgt 120  
 ggccctctgcc cataggcctc acacaccact tgccctctgcc tggggacaga ggaggggaat 180  
 gtgcatgcac aggagcaggg accaggatac acgattcgtt cttggggagtc atgtgatgtc 240  
 tgcaggctaa caggacatct acttgtccag agagccagtc cctaccagg gacaaaggca 300  
 taccacaccg gtagatatga aaacatagat gtgcacacat aacaaaacaa caacaaaagc 360  
 catcaagtcc actctgtgcc gcacatatgc tcttgggtgt gtgggcatgc aatggagccc 420  
 gatcaacctg ccagtggcta ctctgagag aaaactgact ctccctcccc tcagaagcta 480

tagctagcta atgagccatt ttcaataatt tggttatctgt tggcacctcg gccaccaggg 540  
ggcgtctctgc agtcagactg cctgaccctg ggaatcatgt gacttatctt aatgcagcac 600  
tc 602

<210> 563

<211> 476

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI013387

<400> 563

cacagccaaa gaaatttatt ttaaaataga aacaaacata cattaagctt taaacaatca 60  
aatttttaaac aaaagggaaa aagagccatt tgatcccaga gttggtacag aatgactttt 120  
gtgtgtgtga aatccacgta aggagcacgt ggacaagctg acatggaaat ccatcatgcg 180  
tgctcagggtg tccactggct gccatcagac actcatacac taagagctac ccttgactga 240  
ctgcccactg gcaccattcc caagacccaa gtatcatgtgg ggtatatggt caagtgttac 300  
ggttccttct gaacacgaga agagaggggtg ctcaacagggt tcttctttcc ccgctgattc 360  
cgccaagccc gttcccttgg ctgtgggttc gctggatagt aggtaggagc agtggaatc 420  
tcgttcattcc attcatgcgc gtcactaatt agatgacgag gcatttgcct cgtgcc 476

<210> 564

<211> 498

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI013657

<400> 564

gaactaaata aaacctgctg tcttcagtag agagtaattt gtaacacaag tcatgtgaac 60  
agacagaagt aatgtgaaca taccttattg ctgcattgtg acttggtgac aagattctga 120  
gcctggctga ccatttggag caaacgggaa attctatagg ccaggacagt ttctagagca 180  
caacaaaagt tgcagaaaat atggagaatt gcacatgggt cagtggcgtt acagaatcat 240  
taaaatttca ccacatgaat gggaaccagt aatggccaca aagaagcaga actgagtttg 300  
caaagctgag ccatatgggt cagtgcagtc actgcaggag acagacgagg aaggacggaa 360  
ggacggagca cctcgtcagg tgtcaggact caaagtgcct tatgcaaaga aggctacacc 420  
caaaccttag ggagagtcag accaaagcat ctgatgttgt atttaatgat aagatagtac 480  
taagtcatat atataaaa 498

<210> 565

<211> 510

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI013667

<220>

<221> unsure

<222> (1) .. (510)

<223> n = a or c or g or t

<400> 565

cccttataaa caagccaaga ttatatgttt ggagcgattt aatgtgaagg aaagcacaag 60  
agttctattc attaaataac aatccaagga catccaacac tagtagcaat ccctaaacca 120  
gaagacggaa cggaaatcct gaggtgcctg ttaccttoca attttcgaat ctgaagaaaa 180

agcacatgga cctcccagtt taactcctgc ggattactac ggtcctgaag aggggaggga 240  
 tatcacggga gcgagaacac gaaaataaat aaaatcagtc aggaaccacc aaccgtagtt 300  
 ccagcagcag caagaaaagc cagtctaggg ttccttgctt ttcacaactc tctccaggac 360  
 gcaaaactct tcagagaagg ggggtgggaat caaggaaatg cagcataaac atcacagaga 420  
 aggaagttag gttgagaaag agttcagact taactgtacg gactgctgac anacgaagtt 480  
 cacttcattga aacaacacaa caccctcgtg 510

<210> 566

<211> 407

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI013690

<400> 566

aaaaaaatat ctaaattttt gtattggggg gagggagtaa aaaaaaaagc agcccctaaa 60  
 ctggggcccta ttcaatggca acttcttggt ccaaagggtt aaggaaaact ttgaggaaat 120  
 aaaagttggt tggaaaaatc caggtgtaat tgctttgtat gctgtgatgg gtaggaaaaa 180  
 tgaagtgaag tgtgaaggcc cctcaaacc cccatcttgc ctcaaactat gtcctggaag 240  
 cctggggcgg aaaaaacgcc actttcattc ctgcttcttg gggttattta ctgccacgta 300  
 gtgatagagg accacaagca agaaaagcga cagcccaac atgttggcga aaatggcgaa 360  
 ctgcacgtcc gtgatcatcc tgactagctc caccgactc cgaccct 407

<210> 567

<211> 428

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI013745

<400> 567

aaagatttat ctatataagt acacagtagc tggcgtcaga cacaccagaa gagggcatca 60  
 gatcccatca tagatgattt taagccatca tgtggttgct gggatttgaa ctcaggacct 120  
 ctggaagagc agtcagtgtc tttaaccact gagccatctc tccagccttc aatagtattt 180  
 taagctcaag atattaatgg tccagtatat gacagagaaa catgggaaca gattttaaag 240  
 tggggataag aattacgcat ttattgttac tgagaggctc catagtcttt ggacagaatc 300  
 accatcaagc aaaagcttat ctagttaaag tttaggtggc cagtaacttc atcaattagt 360  
 tctactggtc ctggcccaat tcccaggaca gttcgagagc ctggttcaat ctgagtacgt 420  
 ccggcatc 428

<210> 568

<211> 584

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI013778

<220>

<221> unsure

<222> (1)..(584)

<223> n = a or c or g or t

<400> 568

tcatcagaga catttattga gcacttagag tttaatacat tgtaaagaac ccaggcaca 60  
 tcttcccctc aaagggcccg tggacgtgta ggaaacactg gcaagacact ctggtgttct 120

```
cagaaacaaa ctagctatta agtggagaag tgagtgtaac atccagtcca ctgtggtcct 180
aaccatagtt ctgctcttcc taatgaggca ggtatgaacc ctttttcctc cctccaccac 240
actcacgagg caattgagtc tctcattgtg acagtacatg gagaagctga cttcaggatg 300
gtttgtttgt ttttttccat ctctttcctt cgggtggaatc gggccagcct ctttttgaag 360
gagaatatta tttcttttac gaatttggcg ccgaggtaga gggaccactg aagagagatt 420
taagacagat aagactggca aaagcacaga ttgcctgcca caggaggacc tcctaagcct 480
taggatccga ggttaccttt ctctagagac cggatagaaa tgcttgagga caggtaaggc 540
tctctcccan aagagaggtc acaggcctca tgatttgcac aggc 584
```

<210> 569

<211> 487

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI013832

<400> 569

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cctatgctgg ggtttactct ccccaagcca tttccacac tctagaagca cagagcttcc 60
acaaataagt tttttttttt aaaagccatc tctgtataga aatcagactc tgccccaaca 120
ttatcatagt ctagactatt taaaaacctt cacattttta ttacacctgt tctgtatttc 180
cccttccttc ctatccttac caaggagctc tggtactttt ccttaacaga ccctgaagga 240
gtaagatgct gtagaagggg tgatgggctc ctcatagcta ctggcaccag cccagttgt 300
tgtgtcttgc cactgggtgg tggaccgctt ctccccacc actggagatt tgtaggactg 360
gtgcataggc aagggagacg acagaatgcg gtgggtgggt ggggcaagac cccacagcta 420
caggcgtctg tatcatgtaa ccgctcgact tgagggtgac tggctgaaat caagagagat 480
cagtcca 487
```

<210> 570

<211> 568

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI013861

<220>

<221> unsure

<222> (1)..(568)

<223> n = a or c or g or t

<400> 570

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atcaggatag aaatttattt aaatccaaaa taatatgact atagttagaa taatataata 60
attatctaaa ggaaatatca tcattggctc tgaaacagtc taacggtgtc atttttctgg 120
agtcaaaaac atgtagtaaa aggatataca ggaagcaaaa atacagaagc aagccggctg 180
agtgaggaag ctgtaacagg aggttacact aagatactgt aacaatcgag acaggaagac 240
aagtatagca agctgtctta cctatcaacc cctgcacagt aagtcagtaa cccagaatga 300
aggaataata gcacgtggtt aacaggacaa atttcctctt aatttgtctt tgtaactgat 360
ttctttcctt ttttaccatg ggttccatct gggttaacaaa acatttggtt ttatttgtaa 420
agcagagtaa ataaaaatc ctgatcagag tgctcaattt tgtttaaggt gctcaagggt 480
canacttaaa aagggtcaact gggctagtca gtgggaacca ttgggtgtgt ttgctaaaca 540
gatgaaagca gcagcattta aaatggat 568
```

<210> 571

<211> 492

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI013875

<400> 571

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catgtgtttt tttttttttt ttttcatacg tcggaagcgg gagagatcag actaaagatg 60
ggtgggtata cctgggtattt ggatgagatg ctctgtggga ggctcgcagg ggattcgagg 120
gtggccttta taaaatgggtt ttatttttcta gctgtattta aaggggtgtt taacattacc 180
tacttcatta aaaaacaaaa acgccccctca ggaaatttag atacaattgc gctagtcattg 240
gttggcatct atgagagaga gcaactgcat tctgaatgag taaaacggac gtgtgcattg 300
taatttactt ttcctatgtc cccttcgaga ggggcaaagt aaaacaaaga aagcagtgca 360
gttggctgag gagactgagc ttgcaaagca atagggtctt ctgtccaggc agctcctacc 420
ccttcagttc cattccattt tcccttggga ctaaaagctc tgctctgtct catttaaagt 480
cttgtcttcc gg 492
```

<210> 572

<211> 480

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI013876

<400> 572

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agaactccca ctagaaattt tataaatata tatgcagcat atatatatat atatattata 60
tatattatat ttgcccacca atagattctc agcaagtctg gctgaaatga tgccatcatg 120
ataaatatta acaaaattag tgagttttca caggttttaa atatttcctt tgaaaaataa 180
taagttcaac ataataatg taattttag ctcacacaat ttaaaaagga gagggagata 240
cctttcttag aacagtttcc agcccccaa tgtgctaagt tgctggctga gttgcagcac 300
ttggtcaaca ctggaaagaa gtatttatgc ctctctggga aggtaccaa cactgaagaa 360
aagagagaag agaccccaa cagtcaggga gcattcctcc ggctgcaag gtcagcagga 420
aagggtctc catgctgctg ctgacactca tgatgagtc tggaagcact cagttacaga 480
```

<210> 573

<211> 694

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI013911

<400> 573

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ataatcagga cagtgatctt taataaaaaa catctctagt aatcatgatc ttgatgtaga 60
ttgttcatag gtacattcag aaatcacttt ctggccatga gaaaacatca tttacaaatt 120
tttaatgtcc caaaatacac attaatttaa aaaacttgat ttatcctggc cacttttttc 180
tcttgccag caacaataat cctgagtgcc tcaacaaaaa ttctgataaa aggaaaaata 240
ttgggaccgt taacaaatgt cttaaaattt gtcttttaaa gggggaaaag tgttttaaga 300
acacatggag ctttcttaaa gttctttaac aaactacctt gggagctcaa ttcaaaaata 360
gaacttgatg tactaaaaca gacgtttcag cgcagctcca aaaatcttta taaatacagc 420
aatttgcaag gacgatcctg gatcagaagt gttattcctt gtgtatattg tgtgcatgcc 480
ccatctcagt tgtcataatt gtctctgtaa tttcctcctg agtagcggtc atagccaccc 540
tggtctctgc cactgtagtc tctagaccgc ccatacccat atccatagcc tccaggctcg 600
ctgtcgtatc ttccacttcc atatccctgg tctccaccac ctctagagta gctgcgacca 660
cgccccatggg ccccaaaaagc accccctctg ggtt 694
```

<210> 574

<211> 685

<212> DNA



<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI013918

<400> 574

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attagaattc ttttaataga tataaaaaag tactaaaata cttgtgtggt tctgctgtgt 60
tatttgccct aaaggaagtg aggggcagag tgaagaaccc aagtgcagct ggggtgggcct 120
ttccttaggc taaggcatgc tcctcccatc atccagactt gtgagcccct gctgcccagag 180
cccccaattc ctgcagcagg aagccccagt ggtctggctc tggcactggg agtagaaggc 240
acctgtaggg ctggctgggc aagtgaggac aggtgacctt taacacaaaa tactactctg 300
gtatggggag caggacatgt agctgaagca gctgtcgagg ccctgcacct ctatggcaca 360
cgtggatggt ggatggccac ttctccggga gcgaggaagc ctatagccca acaataactaa 420
aacttgTTTT tggtaaaaa taaatgcaaa gaaggtagat gagggccacc atgaaagcac 480
ccatgttgcc aatgaggctg aagaggcagc tctctggggg gtatgtgcc aacttgctga 540
tgagaggaac atcatccagg gtgcagcagg tcttagggcc cccttggtca gcagggtcag 600
gagagcagga atcattgtag gaccagttct ccactgggca cacgtggcgg ttcattcacg 660
ccatggcata cacagtcctt atgcc 685
```

<210> 575

<211> 400

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI013924

<400> 575

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aggggggtttg cattttaccc cctctactta aaaatttttt taattaaatg catttttagca 120
aaagtgatta aaaaaagaaa aggggtcaaag cccagatgt cagcgagcaa ggtggtggct 180
caggaaaaaac gggctcttca gtcctcccag gaagtagcct aaaagctgcc actgtccctc 240
agacacaagc tcgagcaacc caaccaatcc tccctgggca aaaggccctt gtactggccc 300
ttgtgtttcc taacccttcc aaactcgga actccaatc tgtgtcaagc cttccctgta 360
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<210> 576

<211> 126

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI028938

<400> 576

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<210> 577

<211> 445

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI028973

<400> 577

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ataaacattg gtgaattcct tggccttggc tccaagctcg gcttcccgtc ctttgcgaga 240
cttgaatctg cccacgaaca ctttgcggtc attgaggagc atgccattca tcttctcgat 300
ggccttggtg gcagcctctt ggtctcgaag gtggacaaag gcataaccct tagagccgtt 360
ctcatcacag accaccttac aggacaggat gtttccgaag gcagagaaaag tgtcatacag 420
tgccttggtg tctatagact tgtcc 445

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<210> 578

<211> 300

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI029026

<400> 578

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gcgctcagac cttaagggcc cctctgaact cgctaacgca tttcaaattg gcaacactag 180
ccggtatcaa agccggaggg ggtggcctgg atccagaact gctgtgagcc agcatcccag 240
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<210> 579

<211> 380

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI029212

<400> 579

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aaaggggtgat ggaatccttt agcagtagag ctgggggaaa ggcccttagg ttattggaac 180
atgcccttga gggattgtag cacttgggtc caagcgtctt ttctttcttc ctgcctcaca 240
gtgtaagcag tttgttctgc catgtgtgcc ctgccactgc catttggcac tgttgccaga 300
gacccaaagc aatatgactt cctgatcttg ggtggggaca tccagaactg tcagccagat 360
agattccttt tctctttgta 380

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<210> 580

<211> 549

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI029291

<400> 580

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taaagcatat ttttaaaaaa cagaaccaa ataatgtaca tttttatctc taaacattgt 180
gtcattaaag tccatatact gtcttttgta taaatcaatg tgatgttaca ataataata 240
tgatctgatt cttatcttaa aggctgtgta ccatgtatga tatccaagat agactcaatg 300
cctttaatgc cagactcaga aactgttatg accctagaga acgaggggag gctgtatgca 360
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<211> 323  
 <212> DNA  
 <213> Rattus norvegicus

<220>  
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 ttatgccaat tttctttgca attgccaaag agtacaataa gtgaactcct taaatgatat 180  
 acttctgtac ataaaatatc catgtattaa tacaagtgtg tggagcagag tttaaaggta 240  
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<210> 585  
 <211> 485  
 <212> DNA  
 <213> Rattus norvegicus

<220>  
 <223> Genbank Accession No. AI029847

<400> 585  
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 tggtcagagg taagggagat cggctggctg ttggagatgt gcaagtccac gggttttcagt 180  
 gatgaggctc ccccttcccg ggccatctct aacagctcct taagacatgt aggaacaacc 240  
 ttgaccatca caagcctatt gacccacggc tggctctggg gccacgattc ccccacacag 300  
 aaccacagag tgtatcgtgg ggaatgtctg cttccttcca tgaaggcaat gagatctggg 360  
 aacccaagag tcaggctcagt aaagaaaggg tcacagttac agcagccggt tcctggactt 420  
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 accat 485

<210> 586  
 <211> 319  
 <212> DNA  
 <213> Rattus norvegicus

<220>  
 <223> Genbank Accession No. AI029917

<220>  
 <221> unsure  
 <222> (1)..(319)  
 <223> n = a or c or g or t

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 agaacagcca gagcaggtga gtcgaggtgt tctgggtgac ttggggctca aggtatcaag 180  
 gtaactatgg caggctcggg cagcaagaaa gaggctccag gagaatgaga tgatgttccg 240  
 gtgttcaggc aagcangggg tcacagcaca ctgggattcc ggaagttgtg tcncgcgaag 300  
 cgctcgtgc cgaattctt 319

<210> 587  
 <211> 537  
 <212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI029969

<400> 587

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aaacagtttc atgcttataa aagtcaccga aggtcaagtt gtggcaagag cacgtacaat 180
aggaccaatc caagtagcaa agagggggag gcagagaggt tagaaagcag tcacaccgtt 240
gacacgaaaa gaacaacgaa tacacatttc tgtattttga aggcaattca caatcatttc 300
caggaattct gtgagaattt aaggccattt gttctaaaga aatgtagaca tgacttcaca 360
aaactgtagt ttgtataaaa actgtacatt gaaaactatt tagaattgat tgtgagcagg 420
cagatcaggg cggaggggtg ggctatttca cacacaggca ggtcgggcca caggggtgag 480
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<210> 588

<211> 147

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI029996

<400> 588

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cttcagggtga gctgggtagc atgcctt 147
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<210> 589

<211> 394

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI030024

<220>

<221> unsure

<222> (1)..(394)

<223> n = a or c or g or t

<400> 589

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acttttgtac atccttaaaa aggggggatat atttccttgg aaattcagca atttggtcag 180
ggcatggata gcaggggttt gccaggtagc tctacactaa gcacccgaat ggccccaggt 240
tgcttcagag gttctgcagt tactgaaagg catgaggatc cacgtaaaag gcanagagca 300
actgggtaaa ctgctgcaca aaagacttct aactgtattt tatcggcttg cagactggga 360
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<210> 590

<211> 503

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI030069

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 tattcagctt cagtccctgct cgcagaaggc gggctttctt tctgggtgtt tgtccatggc 180  
 tctcagtcgt gctattttat ggtctagact cttaatcatt ggtgggcttc gaggtcttta 240  
 catctgcagg cctaccgggc agatgtccat gtgacttttag gcatctgtaa ggtgacaatc 300  
 cgacttagga ctogaagcag cgtagcgctt tgatgacctg agaatgctga ggtcgggtga 360  
 gatcactgaa gggagggatac ctgacctcga cccgtgaaga gtacagtccg tgcttacgcg 420  
 ttggcgccgg gacccttctg ctgccccaga cgggtcccga cgccgcggcg gagttcctcg 480  
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<210> 591  
 <211> 192  
 <212> DNA  
 <213> Rattus norvegicus

<220>  
 <223> Genbank Accession No. AI030170

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 ccaaggcccc ct 192

<210> 592  
 <211> 399  
 <212> DNA  
 <213> Rattus norvegicus

<220>  
 <223> Genbank Accession No. AI030242

<400> 592  
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 caggccttgg ctttgaacgt acccggtccc ccacatgctg gccccttccc ctggtccctt 180  
 cctccctaaa cgctcgtgcc tgacctgccc acaggcagct actgcccctc agcagagtac 240  
 taccctatgt gatagcctga acctggccac tggtagggag cacctgggtg ggcacatctg 300  
 ggagcaagga ccttcagaaa gatttccttg gggcacgtcc tgagtggggc gtgggggcaat 360  
 aatgcttctt cagtctcccc ctttcttctt ctctcaaga 399

<210> 593  
 <211> 372  
 <212> DNA  
 <213> Rattus norvegicus

<220>  
 <223> Genbank Accession No. AI030259

<400> 593  
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 gggagggtag aatatgttct ttaggtacag catctctcac tgaggagtcc agaggctccg 180  
 cacctaccac caggaagctg tgcataccca cagcccagc cccctggtaa tcacagcggc 240  
 aactatcccc aacgtgagct gccgcccgaag gctctacaca agcgagttgc aaagcctcac 300  
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aatgtttctct ca

372

<210> 594

<211> 562

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI030271

<400> 594

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ggacatgtct atataaaagg tatttctaga aaaaaaaaaa acccacaata aaatcaaattg 180
agccaaacaa aacataagaa gcctttggta cttttcaata acaaaagaga aacatattta 240
gatgattaaa ttcacacaat atgaaaatga aatattgggt taacttcata aagcagaaaa 300
ggagagccta aagaatatta gcatccaagg gcaaaacttc ctttttctcc tctttgattt 360
taataaaccc ccagaatttg gcaaagaatt tcctgaactt aaattgtctt ctgggtctgca 420
gatacctagc agtatggcgt ttcccactca cctgatgttc aaatggcact gtctggtcat 480
gagcagcaca cttcctttgt cccacaagcc tacaggaagt caacactacg ccttgaaagc 540
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<210> 595

<211> 394

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI030449

<400> 595

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gactccacag agatagcaac agtaaaggca gcagagactg cctgggtcag actgtaagca 240
gggagaagtt gggaggaaca gaaaggcagt aagaatgata ggaaagacca ctgatagact 300
gcacctgac ttcttgagga ggtcatggcc tcacagttcc accagactgg gaggcctgga 360
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<210> 596

<211> 447

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI030668

<400> 596

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caggaaagca gaaggtaggc cctaccacaa agaaaagatg tcattaatgg aggttaactt 180
tcaacgtaca ttaaatacta tcaattaacg tctgaagaga acctaggggt tgttcacctt 240
gctataagca tgagttgact ttgttatgt cattgaaaac ataaaaatgc cttaaaaatc 300
tcagctatta agtatgatct tactggaaat tcttaaccac aattttcctt cctggaatga 360
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aacctgttct accagctgaa acagctt                                     447

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<210> 597

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<220>  
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 ttaaagagaa gttataagtt catggtactt tccaaggatc tgccgttaac atgggctcac 180  
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<210> 598  
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 <212> DNA  
 <213> Rattus norvegicus

<220>  
 <223> Genbank Accession No. AI030932

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 gtgacaagag caggtttact gagttgtgag ctcagactgc tggaccttca ggctggcctt 180  
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 aacaaggtaa tccataactt catctaagga ctcttctatt ttctgcagct gccccttgct 300  
 agaagtgagg acgccatcag acacttcctt gaaggaggta acattgcgga acgccgagta 360  
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 <211> 191  
 <212> DNA  
 <213> Rattus norvegicus

<220>  
 <223> Genbank Accession No. AI043654

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<210> 600  
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 <212> DNA  
 <213> Rattus norvegicus

<220>  
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cctcactgct gttggactcg gatgtggacg cccagcggca gtgagccac acatccttca 360  
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<210> 601

<211> 370

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI043724

<400> 601

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cacaggacag gcctgagatc agttcattca aataatcttt gtacgcagag catcccagag 180  
tatcacccca gcctaacctg gagaaacgtc accgacaagt gcagcagtca gggtcagcaa 240  
aataaataga gttaatatat atgtgtgcta tccttgaata tacagtgaag accgggcccc 300  
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<210> 602

<211> 188

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI043728

<400> 602

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tctccaca 188

<210> 603

<211> 485

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI043752

<400> 603

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ccaaaaacca aaaaagccca aaccagtaac agtaacaaga acctctgcaa aatttaaaca 180  
accgttactc atctcacata aggatacaaa cccttccttc atagcttaga aagtacctcg 240  
catcgtctga gacagacatc cagtccaaat tagtaaaatg cattttaaag cattacaagt 300  
ctaagcatal agaaacagaa accacaccat cggtcagatg aacacaagca cttttggctg 360  
gtggatgcag aaagaatgtg agtgtcggca ggaaggggta agaaaatggg tgatgttgaa 420  
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acctt 485

<210> 604

<211> 346  
<212> DNA  
<213> Rattus norvegicus

<220>  
<223> Genbank Accession No. AI043761

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aaccttcttc cccttaatat tccaaaacaa atgaagatga acatgaccaa ggtgcagaat 180  
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<210> 605  
<211> 498  
<212> DNA  
<213> Rattus norvegicus

<220>  
<223> Genbank Accession No. AI043805

<220>  
<221> unsure  
<222> (1) .. (498)  
<223> n = a or c or g or t

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gaaagcttta acttattcct gttctaacat aaaccatggt taacaaacag atgcttgaaac 180  
atgtgccgga atttagatta ggcaagggaag ttcactccac ctagcaagca agtctgaaat 240  
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<210> 606  
<211> 323  
<212> DNA  
<213> Rattus norvegicus

<220>  
<223> Genbank Accession No. AI043855

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ccattaagta aatcatatac attgccactc atgtatcata tcagcctgct tggactgcag 180  
ttccttcgtg gatgaagtct gcaagtccca gccctgctgt agagccagcc gctccctgac 240  
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<210> 607  
<211> 487  
<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI043945

<220>

<221> unsure

<222> (1)..(487)

<223> n = a or c or g or t

<400> 607

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cctgcactgc caatagaagc agtgacaggg gaccactccg actcccgcac tcccgtaccc 180
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gagccttgca gggcaagcac acagccctaa gctatgcact caggctaagt cttttacaaa 300
ttatatctcg taaattcgcc atattcactg aagctctagc tatatccgta agactgtaaa 360
catctcgggc accactggca gctcgtanag gagacacact atactgtttt aggaagtgtg 420
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ctgggat                                         487

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<210> 608

<211> 487

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI044101

<400> 608

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cagcagagga aacaaacatt aagcaaagag cataaaccgt aggcacagca tgtgtgctgt 240
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cggagggcac gggctcctcg tgaaccagg ggtgctgggg gaagggggct ggcttcacag 360
tgagtatttc atagagttaa aggaggagag agagttcaaa tgtggccttg aggcttgaat 420
atcctgggaa agttgaggca ccagcctgaa aagcctaaga atcttcctct tctcctccct 480
cttctctc                                         487

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<210> 609

<211> 337

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI044241

<400> 609

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atatggccca ggcttgagc cagtgaggaa gtccaacgaa ggagctccct gactactttt 180
ctagggccaa ctcttgaga ctgcagctc atggagtga gcccgtataa ttagcttttc 240
acgttgaggc tgccgatgag gtctcgacga ttttgtttat acacatcatg ggtgatgcgg 300
gcgatgtcct tgccatgttt tggcttctcc cgtccta                                         337

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<210> 610

<211> 471

089700Z JUL 68  
FM JCRC  
TO RUEADHJ  
INFO RUEADHJ  
RUEADHJ

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<220>
<221> unsure
<222> (1)..(471)
<223> n = a or c or g or t
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ggatccagcc	ttcaggaagg	tctaccttc	cacccattc	caggcagctg	gtgaggctga	180	
aagcatggga	accaggcaac	acctgctttg	ggtggagaat	cagcacacag	gctgggcaga	240	
gagctttatt	ggagggatgg	agggcacgat	gttctgaaca	tgagttgagc	agagtattgg	300	
tagggagggc	ttaggtagcc	aggaagcccc	catccactgg	caaagcggaa	ccagtagtca	360	
tgctacttcg	gttgctcagc	angaagagga	tggtgtctac	cacgttctcc	acctcagcaa	420	
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<210> 611
<211> 356
<212> DNA
<213> Rattus norvegicus
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<400>	611						
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cccgcactga	attttcacag	agcttataaa	ggaaaaaacc	acaaaccagg	gggatcaaga	180	
gggagggagg	aggggaattc	caaaaccata	aactgccctt	acaattttag	actttgtgac	240	
attgtgatta	ggggtagtca	cattttacag	ggccatttga	ccattttggc	cggaggctat	300	
qggtcattqt	qgctqtgtcca	qgaaaccttt	catqcaagaa	tgtttccggga	accatt	356	

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<210> 612
<211> 477
<212> DNA
<213> Rattus norvegicus
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<220>  
<223> Genbank Accession No. AI044325

<400>	612						
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ccgccacaaa	atattttgtc	ttttccttat	agtttcagaa	atcagtacca	ttaaagcctt	180	
aaacagaaaa	ctaattccaa	tctgaaaaag	gtacaaaaag	gcacataaaa	tcccagtgct	240	
tctgtactgt	aaaattcaag	tgtagctgag	ctcgggtgtt	tccagacagt	atcggatcac	300	
tgatattccc	tgggagccca	aactgggtcg	cagcctacgc	caaagcctcc	agcaagcacg	360	
gtgctagtgg	actacagagt	taaagcctag	cttctgtatg	ctttttggga	atatcaggtg	420	
aaactgttca	tacgtgtcca	aaagccaagt	ccgtcctgcc	gttcagtcac	caccacc	477	

<210> 613  
<211> 407  
<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI044338

<400> 613

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ataaggtttc tactccacct gataaactgg cttctatccc caccatgggtg ccagttggag 180
gcacttggat tacagagaaa cagcagctgg cttgaagagg gggttttagtc taaaatctcc 240
cagtaggaac acagaacaga ttgaacttgt gttggggagg aagggttgcta cataccagag 300
tacgtttcag tttctcaaac cagaggggca cccaaggcac tttccctgtc cccactcatc 360
ccacaatcca ccttacttgc tgacctccac ctctgtgtgt caaagca 407

```

<210> 614

<211> 283

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI044345

<400> 614

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tttttttttt tttttttacc taatggaagc ctttatttta gccaaactga cagctctgag 60
ccaaagctcc aagtccacct cctggcccac tggtagccag aaaagataca caggctaagg 120
ttgtccccta aggggaaggg ctgaagtata tggcctgtgg gctgaagctg gctctgttct 180
gggcaatcca gtgtcccaga gagacagggc catcagatgt ctttttccat ccagaatata 240
gggcacccct tcagatctcg atatcgtgtc tctaacgggc ttt 283

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<210> 615

<211> 447

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI044404

<400> 615

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tttttttttt tttttgtatc agaatacaat gttttattaa tattctaagt agatgcttac 60
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gatgccatta aacaccttag ggtttatgaa gacctgtaca acatgggtct ttttcagggt 180
ttcaggttgg tggagatgtc acacatacat acctccctgt actgtaacac agaaatcaat 240
aaatatcaca aaagaaccag ataccattgg acttgagaga cagaactcac tgctaggaaa 300
tgggagaacg ctgtcccacg agagctgaat ttgacttgtc aggagtaaag aggatttcca 360
tagcttgtgg tgaggactaa cgatctaagg aatgtaatac aaatgtatcg gaaagggcag 420
actaaattgt gaaaacaaac agttcag 447

```

<210> 616

<211> 446

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI044533

<400> 616

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tttttttttt tttttttaaa ttattcatgt ttatttataa agtcacattc caaaaatatt 60
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ccaaaatcaa gaagggaatg tggattctgc aaagccttcc acagcaaacc tgggccccag 180  
 ggaccctcct ggccttcact gaggaatgaa gataccactt gggagtccta accccgccct 240  
 gcagtaccca ctggacccca agatgtcttc aatccaggac aaagcaccct atttttagccc 300  
 taagatccac actaggcctc agggctgagg agaagcttgg ctcatgactg gttggagatg 360  
 tgccctggatg ctgggtgcag gagaaacagc cactctggcc acagccagca cacaggttct 420  
 tgtgtcagge tttcatcact gccatg 446

<210> 617

<211> 387

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI044550

<400> 617

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 tggggcaagg gaagttgcta tattgaaatc agggaatggt tctgccagta cgtcagacag 180  
 gtgctgtctg cagagcagat ataagagacc cctcaggtga taatgacagg gtcattctct 240  
 aaggagatag gacaaggctg agaaggggag aagatgcaag aaggacattg tgtcggctga 300  
 cacggtgaga cacaggttcc acagctgcta gcccgatatgc tggctgggct gctgctgtcc 360  
 catctagtcc caagagatga cctttat 387

<210> 618

<211> 263

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI044621

<400> 618

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 ccagtccccc aactctctcc tagtaaacgg aaaagagtcg agtaactcgg tgggagcttt 180  
 ggaatcttcc aaggctagtg tcggcagggc acggagtgga gaactgaagc aacgatctgg 240  
 ataaatcgca ggggaatggg tgg 263

<210> 619

<211> 388

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI044900

<400> 619

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 accagaaggg tcacataaat gtactgcatg tgagggtggtg agggaaaggg acaaggggaa 180  
 ggggttaaga agagaaatct ctggtccact gtgactttct tcagcctgga cagttgctct 240  
 taaaggggta gctttcttcc agtgtactgt actcttcaga gcagcagacg gctgcagggt 300  
 gtgcagccag cagcagacgt atcagaaaga gtaagtcccta accccttggt tagaaaaaca 360  
 ggagacagaa gttttaacac ccacctta 388

<210> 620

<211> 460

0997800.0230

<212> DNA  
<213> Rattus norvegicus  
  
<220>  
<223> Genbank Accession No. AI044925

<400> 620  
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ggagtaactc tggctaactc ggagagggaa gacaaagttt agatctgggt gagatttggt 180  
tacgtttcta aaagaagaac tccgaaagct tccagacttg caggcgtaag ataaagacag 240  
cgttgacatt tgccgggagg tacggcgata gctgcttctc agctatcatt tttcccccta 300  
ggcactgctg gctttctttg actattatag ttgccagaaa aatccttgct ttttttactt 360  
tgaaaccagc atttgaatgg caagttggat ataatgggat gagaccaaat ctttccattc 420  
ctcacgggag taatgataga acacaatttc caatcccaca 460

<210> 621  
<211> 320  
<212> DNA  
<213> Rattus norvegicus  
  
<220>  
<223> Genbank Accession No. AI045116

<400> 621  
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gaaggggttt ttaatgcgta gaaatatcgg ttgggcttag tagcacatac caactctagc 180  
agagtcaggc agatctctgt gagactaatt ccagtcctgg ctacacaaag atgtgtaaga 240  
ctgaaagagc tacatggtga aaacgtctct caaaaacagg agcccaaaaa gataggaaaa 300  
atattcagac cctcgtgccg 320

<210> 622  
<211> 396  
<212> DNA  
<213> Rattus norvegicus  
  
<220>  
<223> Genbank Accession No. AI045195

<400> 622  
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aagagctcat acagcagttc cacctcctcc agggaggtct gcaggactgg attcaatggc 180  
agggacaagg acctcttttg ccgatgggca gctgggaaca gtgcagccct gctccacctg 240  
cacgcagtgg cctgggcgct ggagagcacc agcagaatcg tcagcacctt ccagggcatc 300  
ttccaggagt gagacaaact gaccttctat tctctcagga ccccaggagc cacaggtggg 360  
ccctgctct tctctgcgag cctcgtgccg aattct 396

<210> 623  
<211> 353  
<212> DNA  
<213> Rattus norvegicus

<220>  
<223> Genbank Accession No. AI045253  
  
<220>

<221> unsure  
<222> (1)..(353)  
<223> n = a or c or g or t

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 cagcagataa gagcacttgc tgttcttgca aaagacctaa gtccagctat tggctcctat 180  
 atgggtggctt gcaacttcct gtaattccaa ctccatgtag ttcttactcc tatttctgac 240  
 cattgtggga catcaggtat gcacggggta cacacacata tatgcagaca aaacatttaa 300  
 ataaacatga aatanaataa tctaaaagac ctccagagag gattggcaat gta 353

<210> 624  
<211> 457  
<212> DNA  
<213> Rattus norvegicus

<220>  
<223> Genbank Accession No. AI045256

<220>  
<221> unsure  
<222> (1)..(457)  
<223> n = a or c or g or t

<400> 624  
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 ctgaacatca tagtaaggct ggggtttcag gaggttgcgt gtctcggttt acttagatca 180  
 gagtgcagat tgtgcagagc cttcttgctg atacattcat tactgtcgac ttactgtttc 240  
 tatctgaaca agaacagcag cttttctcac cagaagtcac ccacattgct cagcttaaaa 300  
 tgtcaccacac ttggaaagggt gagcccatgt cagcatagta ctgctttaaa ggagagtcac 360  
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 aatgtcagat atatcatggt tagacaactt tacatga 457

<210> 625  
<211> 396  
<212> DNA  
<213> Rattus norvegicus

<220>  
<223> Genbank Accession No. AI045440

<400> 625  
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 ctggatctcc tggaactgga gttgcaaaaa tttgggagcg gccatcttag gtgctgggaa 180  
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 cccctcacca atatttttca taactgtaaa agtaaaagaca tttattgtgt aaaacaaaga 300  
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 aggatgtagc tgctatcaca aatgcacctc gtgccg 396

<210> 626  
<211> 439  
<212> DNA  
<213> Rattus norvegicus

<220>



<223> Genbank Accession No. AI045441

<400> 626

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ctgtcctttg cacataaaaa ttttgtttga aactgtgatt ggttgagtac acgagttttc 180
tctaaccagt caccacactc tgaaataacg ctgctaacat tcaactgata aagggaccgt 240
ccccttggtt aaagtgtcaa gcagggttaa atatgtataa tagacaagca ccatgaggaa 300
tctgctcctg ctcgatgggt ctgtgtctca atgtccttgt gtaccctctt tttgtgcaag 360
ttgattacat ggtttttggc gactccaaaa gcacatggtc acaagacaaa catttttttt 420
ttaaaaaaca ttctcatga                                     439

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<210> 627

<211> 453

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI045555

<400> 627

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atcatctctt cagttcctct acgtacccaa aagcatcccg gagaagctgg agccgttctg 180
gatggtgagg actgccccag aactgttggtc cacgaacaca gagacatact gtccgactg 240
taaatacagc agcccctgaa cctgcacggt gaagaccctg ctgttgctct ccaggcctga 300
cacagcctcc agggacgtat gacggtgaca caaggactca atacagatga ggacacggac 360
cgtgtcccggt gtacgtaacc ggctctgccc ctgcagttca ctgtggtcca cgtgcaggct 420
ggcagaaaac tggaagatgg cagagactgg cgc                                     453

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<210> 628

<211> 422

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI045624

<400> 628

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cctaccacgg cggccacctt accatacgcc ttgctttggg tggctgcacc aaccggcctt 180
tttaccgcat tgtggctgct cacaacaagt gtcccaggga tggccgattt gtggagcagt 240
tgggctccta tgatccacta cctaacagtc atggagaaaa gctagtgtgt ctcaacctgg 300
accggatccg gcaactggatt ggctgtgggg ctgagctctc taagcccatg gagaaacttt 360
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ga                                     422

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<210> 629

<211> 551

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI045802

<400> 629

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tttttttttt tttttttaac agcctaaaaa gaggaaatgt ttattttggc tcagtttcag 60

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 tgtggctcgt ccttcacctt ggctttgtct ccttttagcat ccccttcagc atttcttttg 360  
 ggcacggcgg cggcagggga cgtcggcgct gagcacgggt ttacagcggc gcacggggtt 420  
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<210> 636

<211> 496

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. AI058436

<400> 636

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 gtccttaaat aaagtgttca cagagtaaaa atcagaacta ccagtccttc cctccaacac 180  
 aacagagcac aggcacagaa ccgatagtcg atgagcccaa ggagtaagga ggaggctgga 240  
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 tgaggaaagc cgccagccc cctacacacc tcataccac tgctaaggct aaaagaaaag 360  
 gacaaaactc agtctcgggt ccaagggctc agaacagtcc aggtgggcag ggtccggttg 420  
 actgctagtc ccgcttggcc ttcttcttgt cactgttgcc attctcttca gccccctccg 480  
 tggagagtgc ctctc 496

<210> 637

<211> 490

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. AI058581

<220>

<221> unsure

<222> (1) .. (490)

<223> n = a or c or g or t

<400> 637

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 acacttgagc tgtttcccaa aactaagtgc tgcaggagag cagaagcagc tacctagcct 180  
 gccagagaca tgctgtttct aggttanggt gactgctgac acaaggaagc aaaaaaatt 240  
 aaaaatactg gagcgtgtga taatgatgag ttcagataac gcatgggttg agttttcggg 300  
 ccttgggaca tgctggagat gtactgttgg tacgtagaca tgacagaaca tgatgaatgt 360  
 tctcagaatg gaagaacatg gcaaagaaaa gttggagggt tgaaaagaag gaaagactta 420  
 actctaagga gagactcagg ctttggacta ctgctctttt ggaagattta aaataaactt 480  
 tgaatgttaa 490

<210> 638

<211> 376

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. AI058603

<400> 638



<211> 243  
 <212> DNA  
 <213> Rattus norvegicus

<220>  
 <223> Genbank Accession No. AI059386

<220>  
 <221> unsure  
 <222> (1)..(243)  
 <223> n = a or c or g or t

<400> 642  
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 cacacaatgt cttacatttg atattgtctt cagtctgggtg actgttttcct tgcaatagtt 120  
 gggatagaat ctgaggcctc agacatgaca ggcagggtcct ccactactaa actatgcccc 180  
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 ggtggtacac cgcggtgtgg cctgctggct tctgcttggc ctctaaaaca gctggatcat 360  
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 <213> Rattus norvegicus

<220>  
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 ctgccccaat cccagggtat aggagtgtct ctcttgccag cctgtttcct gattactcaa 240  
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<210> 645  
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 <212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI059543

<400> 645

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cccaaaggct gacgtgata ctctatggct atgtggaagc cacgcaggct gtgacatggt 180
caatgctcca actaggagcc catacagcag aatcagcatc cagggcaggc ttatagggac 240
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<210> 646

<211> 374

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI059604

<400> 646

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tttacttaga aaagagttaa cagtaaattcc agtctaaaca agaacctact atcagttata 180
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gggagagcca gcgatgactc agcacctcca tgattaagga agcctggagc acagacgccc 300
tgatggggag gaggggtgga ctccagtctg cagctcctcc acatgggctg cagggcctat 360
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<210> 647

<211> 250

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI060071

<400> 647

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atgcggacca cacaacagc gccactgtac acattaccac aggagcacg aatgaggacc 180
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aggtggggga 250

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<210> 648

<211> 390

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI069920

<400> 648

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aaagaccacc cacagggtcg cacatcctcc cagaggccat gcctcccaat ccttctaata 240
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TU-07-000000

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agcattgata	cggcaactcg	ttagatataa	tactgtgtta	gtcacctgct	ccaaggttca	300
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238



<211> 381  
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<213> Rattus norvegicus

<220>  
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<210> 659  
<211> 384  
<212> DNA  
<213> Rattus norvegicus

<220>  
<223> Genbank Accession No. AI070903

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atcatatttg tgaagaggaa gaggagaaca ataccaggg aaagccaagg acatggtggg 180  
atccccctcc aagagtagtc tccaaggaga agggagagaa acacagggat cagcaactgg 240  
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<210> 660  
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<212> DNA  
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<220>  
<223> Genbank Accession No. AI071162

<220>  
<221> unsure  
<222> (1) .. (509)  
<223> n = a or c or g or t

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gctgcattag tgggtctttc ctggtataga cttactatg atttctgata gcagctcctt 240  
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caaactaagt agttgagttt acagaaattc tgagaaaaca actgagataa aatactaagg 360  
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tcaattaat ttgcaaaagt tcatctcctg ngtacaaaca aaccttgaga ccaaactctt 480  
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<211> 504  
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<220>  
 <223> Genbank Accession No. AI071166

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 <212> DNA  
 <213> Rattus norvegicus

<220>  
 <223> Genbank Accession No. AI071177

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<210> 663  
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 <212> DNA  
 <213> Rattus norvegicus

<220>  
 <223> Genbank Accession No. AI071181

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 agtctgcgcc gtaatatgga tcctttcggt gaacgctttt gttatcaggc tcaaactgga 420  
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<210> 664  
 <211> 555  
 <212> DNA



<400> 666  
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 cacatccact gcacacaact acttagcagc agcagaataa actcgcttaa gtgaagtctc 420  
 agtaattaan agaacaagca tgcaactgga gggctgttag cctaacatgc cacatgtcaa 480  
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<210> 667  
 <211> 547  
 <212> DNA  
 <213> Rattus norvegicus

<220>  
 <223> Genbank Accession No. AI071251

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 <211> 501  
 <212> DNA  
 <213> Rattus norvegicus

<220>  
 <223> Genbank Accession No. AI071456

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<210> 669  
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<212> DNA  
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<220>  
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<212> DNA  
<213> Rattus norvegicus

<220>  
<223> Genbank Accession No. AI071578

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<210> 671  
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<212> DNA  
<213> Rattus norvegicus

<220>  
<223> Genbank Accession No. AI071642

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<210> 672

<211> 336  
<212> DNA  
<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI071858

<400> 672

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<210> 673

<211> 334

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI071867

<400> 673

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<210> 674

<211> 271

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI071868

<400> 674

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<210> 675

<211> 450

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI071965

<400> 675

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<210> 676

<211> 384

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI071967

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agtcaaggct cagtcattgt gtagtcattg cagaagttaa agttggtagg aggtgggggt 180  
actgggggag gatgtcagg aatggggcaca ttctccagtt ccaacaaccg caacttggtc 240  
tccatagtga gcagctgctc caggtctagc cgagtctgtt cactccccat agtactgccc 300  
agcagggcac tcagtcacatc tgtccacagg tagaaatccc gtttgaggag ggcaatgaag 360  
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<210> 677

<211> 335

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI071990

<400> 677

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aagtccactg tgctgttata agcctggaaa agagttatca cagataacag taagattatc 180  
cctgtcctcg gtgaagtaac ttagaaaaccg tcactcagaa caaggcttct gaatcaacga 240  
tgatgaagac ataaaataga aacactcaat ttgctcacac aaatgctcac aggttctgat 300  
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<210> 678

<211> 362

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI072014

<220>

<221> unsure

<222> (1) .. (362)

<223> n = a or c or g or t

<400> 678

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cagccatgga ggctgacgcc tgtgccattg ctgagctgta agctcgtgta aggatcaagg 180  
aggtgacttt aagttacaat cacacttgct ctgctagatc caagaccctg aatttatcca 240  
aattgtagaa acaggcttta accaccctgc caccaaaata cctcccatc agatcgacaa 300

cagctttaat tgccgattcg actctctcan attctagaaa tatccgtact gtttcatcat 360  
ca 362

<210> 679

<211> 367

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI072054

<400> 679

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ggcttttacc tggtctgaag ctgggaatgg ggtcccatg tttgacagcg agtcctgtcc 120  
tatcagtgc aactcccaag tgtccacctg gaatagtgc tccttgctga gtggttgat 180  
ccctccatgt ttccaagtgc cagagccctg tctagcacct gtctgctggg acattcggta 240  
gtagcgtcac tcgtcagtgc tcagtgcctt gcagcattgg cagagtgaac cccctggggc 300  
caacctatat gaagacctgt tgtagcaggc tgataacctgt tcactctagt ctggtgcaag 360  
agtttga 367

<210> 680

<211> 512

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI072092

<400> 680

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tcagatccca tgggactgga gttacagatg ctgggaatag aacttgatc ttccagagga 180  
gcaaccagtgc ctcttaatct tcccagctac cactgccaca gccccggat agattttaga 240  
acagcactga gtttagcagc attaaatata gatttgtact cccagctct ggaaatctca 300  
tagccctgca ctcagaagcc agtatatgga tggtagacct gatcttctcc acctccgttg 360  
tcagctcctg gacttcatgc agtagtcgtt ggtacttctg ctgtggtgtc tcctttactc 420  
ccagaacctc tccaagcatt tcatagtctc cagactcata tcctgtcttc ttggtctttc 480  
caatgcatc tgagaaatca agcccccttg tc 512

<210> 681

<211> 419

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI072107

<400> 681

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atagtttttg ctcccttgct tgtagattca gtagaagcag aattgctcat aagcatggat 120  
tagagtgcata tataatcatc cctttttgag aggacccatc ctctatactc ttttcatgca 180  
gtgacttctg gcataaagca caacacagac ctccatgtta atattcatcc aaaaatggaa 240  
aatcagggtg gccctggaat ctagaaccac tcatgtaacg gatattttta tttaggccat 300  
caaggacttt catgtcttct gaagtcaact gaaattcaaa aacctgcata ttctctttta 360  
tcctcttctc agtgaaatc ttagccagga ccacaacccc acgctccagc tgataacga 419

<210> 682

<211> 380

09917800-073107

<212> DNA  
<213> Rattus norvegicus

<220>  
<223> Genbank Accession No. AI072137

<400> 682  
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ttgaaaggtg tagagcagac tctgagacag aacacttgga gtctctcgta gagaagaggc 180  
atgaattact gaaagcagct tcaactgcagg aactgtatca tctgctgtgc ttgaatatgg 240  
tgccatgtgg aacaaacgcc gtgtgtgtaca gatgggctgc agcgattcac tcttgagcat 300  
gacagacttg gaggaacgag cagtgcacaa ggtggttctc ttaaagggtgc acgtgacact 360  
gcctagtgtg actccctcca 380

<210> 683  
<211> 497  
<212> DNA  
<213> Rattus norvegicus

<220>  
<223> Genbank Accession No. AI072246

<400> 683  
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gaatgcactt agatacctgt agtccaactc caacatgtgc aaccaggaa gcagcttcat 120  
gaggtggaca gggcgcccag gcctgcctgc gccattccac acctccactt ctgtgggtgca 180  
actgtcctga gcatgagaag ggctgggaa ggcattcaat gtatcaagct caaccgttcc 240  
tctcgggcta ctttccaggc catgccaaga gtaaacttct tgtaccaggc caatgtccct 300  
gcaaggggtg ctgacaggta gataagtaaa gcagcagcag tctggaaaca gacaccgagt 360  
atctttttcc tgaccaggac gaaagtcagt aagagacaaa aggacttcag tgcccatga 420  
atcctctggg gttcgatgac agcacagcac aggtgagac aggggttgag tcattcctga 480  
cacctcataa cctctcg 497

<210> 684  
<211> 346  
<212> DNA  
<213> Rattus norvegicus

<220>  
<223> Genbank Accession No. AI072278

<400> 684  
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gttgagcca tgtctcactg catggcatcc tgcaccactc atgtctgttg taacaaacac 120  
aatcattttc acagatgcca gttgtcacac accagcttca ggctcaccac atacctggga 180  
agcctttgct tttattctcc ttgccataga gatttgacat gacagtgggc agaaagctgc 240  
agcttacagc ccgagggata atcttcattc cactatcagc acagtgagcc aggcagcttg 300  
gtgatcccaa aacttattta tacgcagaac acggacattt tgcgta 346

<210> 685  
<211> 431  
<212> DNA  
<213> Rattus norvegicus

<220>  
<223> Genbank Accession No. AI072384

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<210> 686
<211> 432
<212> DNA
<213> Rattus norvegicus
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<400>	686						
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tatataatta	acagccaagc	gatactaatt	ttatatattgc	agtgtcttag	ttatagggtta	180	
tttacataat	ctatgttctt	gtgataatca	tgtttcccaa	aaggtagtgt	agctaaattc	240	
tgaattatg	atataaaaag	ttcaaatttc	caattttaac	agcgacgtaa	catttcccaa	300	
ggccggaagt	gcccctgctg	tcagtctctg	tgagtgtctg	tttattccac	gctcaacca	360	
gagtcgtttg	agttggggtg	aatcacagag	acacacacat	caatctcatt	tacttcctgt	420	
qtqtqcqcct	tq					432	

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<210> 687
<211> 274
<212> DNA
<213> Rattus norvegicus
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<220>  
<223> Genbank Accession No. AI072476

<400>	687						
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tagtaacctt	attttgttaa	tagggaatcc	aaggtttgac	aagggttaatt	cgctgaccaa	180	
aagccatagt	cagggtggctc	aaggactcca	gatcccaagc	tcagttttact	ggccatgaca	240	
ttttcttgca	ctttattgtgt	gagggtatata	accc			274	

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<210> 688
<211> 283
<212> DNA
<213> Rattus norvegicus
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<220>  
<223> Genbank Accession No. AI072578

<400> 688  
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gctggccaac aggcgcgggg cggaggcggg aaccgggctc ggacccggcg cgcaaggcgg 120  
 cggcggcggc ggcggcgacg accgcggagc agcagtctcg gcgcgacgtg gaaggatgga 180  
 ggcggcgggtg cactaggcct cgtctggggc tgcagcccgg actcaaattg gttccagaaa 240  
 ccctgtgcc aggatcagat ttgcaagtat gtcctcgtg ccg 283

<210> 689

<211> 352

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI072633

<400> 689

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 ttcacagcat cacaaaatga tggcaatgcc tacctcctgg ctcttgagtt gtcaccttgg 120  
 ccagcctcct agcagcagtc cagtagagca ggggttggag gcacccttgc cctcccactg 180  
 agaattcctg cagcaatcct tcaatggcaa caactgtccc tgctcaagtc tcccatcttt 240  
 atcctcagct gcctttttccc ttcaaagagc aggatgctcg cagccatggc tgaattcaga 300  
 ctgtccacac caggtacaac agggatcagc agtctcttgc caccagtact ct 352

<210> 690

<211> 333

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI072634

<400> 690

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 cttcttctga gccttagtgc ctcaagaactc tggtatcatt ggtctcggac accactttgc 120  
 catccacgac cttacgggta gttgtcctct ggacagtttg catggagttg ctggagtcca 180  
 gggcgctcgtt gagactgaaa tgcgtcccat cctccaacaa gcggcggtag gtggcaatct 240  
 ccgcctcaag cttgaccttg atgttcaaca gggcttcgta ttcttgggtc tggcgctgtc 300  
 cttctgcccc agtttgtgcc agctctgatt cca 333

<210> 691

<211> 359

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI072643

<400> 691

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 aaaatgggtc aaggagggag agagggatat cttttcctcc aaatcggctg gtatgtagtc 120  
 tcagtgcgtc agaaaaaaga ctgcttcttg cctcctttct gattacccca aggcagtctg 180  
 gtcaccgtgg aggcttattt aaaactggaa aaagaggtcc tttgtgacat cctgctgcc 240  
 ttcaagatgt cttcttgaat aagccctaaa gtcactcact ttctctgtgt gttccctgtt 300  
 ccactctcac tcaactacagt ctagtcttta catggcaggt agcaagaata accttaaat 359

<210> 692

<211> 434

<212> DNA

<213> Rattus norvegicus

<220>  
<223> Genbank Accession No. AI072712

<400> 692  
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 ggtgtcagaa gagatgggga gcattttctg tcctacgact aaatgacatg aatttactgt 120  
 acaatgacag tgtacatggc tagggtaagt agcgtcacca aagattagtt ctctcgctta 180  
 cactaagtag gcacgcacat cccaccccag caccgacttc acagtcagct gtaaagagtg 240  
 gcatttcact ggatgcctcg agagacagtt ctgttgaggt atttgagttt aaagactttg 300  
 aaaggaaaga gaatttggct gaaaagtatc cttttcttta gttaaatacg aacaagtctc 360  
 cagtcagcac ccagtcaaac acagtgcctt gaactttggg taatttgtcg gacagtatac 420  
 tccacgccac tgtg 434

<210> 693  
 <211> 499  
 <212> DNA  
 <213> Rattus norvegicus

<220>  
<223> Genbank Accession No. AI072812

<400> 693  
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 tacaaaagag gtagccgggg cagacgtgag cctgaagaac taacacacca tactaatcac 120  
 taattctata gtagagaagt acaaagtctg cacaagtaag actttataac agaattttca 180  
 atcctgcccg aaggaaaata aactatacat atagttcaat ttaaaaaaca aaaacaaaac 240  
 tttaaaagtt gtgcttaaca tagtggactg ctacacagca tcaagtctta gagcactgat 300  
 gtgctccagg gacgacggcc tgacagagtg aggacctgga gtgctctctg agagctcctc 360  
 ccagaaacgc cccagcatct gcagcttgcc ctctgtggc gccactgct ctgcagttga 420  
 ctcatatgtc ttttgtctga tcgtcttctt caagctttct gatttcattt tttaaacaat 480  
 ttatagtttc cctcgtgcc 499

<210> 694  
 <211> 251  
 <212> DNA  
 <213> Rattus norvegicus

<220>  
<223> Genbank Accession No. AI072866

<400> 694  
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 tagtagcatg tctaaaaccc aaactctaaa acgttttaaaa acatttatat tagtttggtc 180  
 ttatttctaa aaaaaaaaaa agttcacatt tcaagttata aacttacctc agtagtgtac 240  
 gtgtgaaatg g 251

<210> 695  
 <211> 388  
 <212> DNA  
 <213> Rattus norvegicus

<220>  
<223> Genbank Accession No. AI072914

<220>  
 <221> unsure  
 <222> (1) .. (388)

<223> n = a or c or g or t

<400> 695

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ccacacagaa ttatcagaga tgactatcgg ctcttaactg tgtctgctgt tggagctttc 120
tacctttgtg tctggctggt ctgctgcata aactcttcaa caactatgtc ctccgatctt 180
gcaggaccag caaaggggaa aggagagtta tcaaaccctt ctctgggctt cctccacatt 240
cttgattcta tagaggtaat cacttccctg cttctcagcc tccccctct tgccccatgg 300
ggagggcttg tttcccttct gaatctgtct atacaatggg gtcaaggtgc attanaaggg 360
aaacagtgtg gcatggggta cagggaaa 388
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<210> 696

<211> 506

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. AI072959

<400> 696

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caacaaatta tcctttttcc cccaaagtaa attgcactag ggtactaggg tttcttccaa 180
tttgtgattt tttttttttt tgagccagtc agcactgccc ttcctcttcc tgactccctt 240
agaccacgag ctggttccct agacagcaca ttcagggtag acacctagct cctgccactg 300
ctatcctgtg agacacccac gtattttatt catggaggac agagttgggc acttccggaa 360
gctccttggt gagaacatgg taggcacctt catacatctt gagtgttttg tcctgactcg 420
gggatgattc catgagcagg tatgcacctt tgctgtcgca tagccggtca gcagaaccct 480
gcagcagcag gaacggcagt gtcagc 506
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<210> 697

<211> 242

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. AI073047

<400> 697

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catcatatac acatggtaca ggagcagcta gagagctgct tttacacaca gcttggttga 120
cagctagcac tgaatcgag ggctgcgaca caatgctata ctggtgtggt gtcagtagca 180
agtaattact acaaagagaa tttcttggca ctgatggttt aatggagctt aagtcagacc 240
ta 242
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<210> 698

<211> 343

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. AI073059

<400> 698

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tcagagcctc ccagcagggc tatgaccagg acccagccca aggaggctgg aagaactgat 120
aatgatgagt agcaaagggc aggcaggcct gtgcctgtc acatccaagt ggaaacaatg 180
tctctgaggt ggggctgtcc aggtccagcc tgttcaggct tcacagccac acccacatga 240
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gggctcttga gtgaggccgg cgtagaaaag gcatgggaac agaacctgta gaaaatccca 300  
actaccataa ccagcattca ttcctacttg aagttaatct ctt 343

<210> 699

<211> 595

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI073092

<400> 699

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tataattttc ataatgaaag ttttcaggat gaaaagtgtt cataatgaaa gaaaagggtat 180  
ccattaaaag aaaaaaaagg agtcataaaa ttatattcac aaatatagta caatatgaca 240  
aagcaattgg tcagtctttt gggtaaagga taacaaaaat gcaaaaacag aaattacatt 300  
atgccgttat tacatcaaat taaaaatgca ggtttggttg taagtataga cagtgaccaa 360  
acagtaatct taaatgtcca ttaataatac ataagcacat agtaaagtc aaacatctgc 420  
actcacatct gcaaaactta gtctccaaaa gagaacttta acactcaagc attattgtca 480  
tactgtttta tttgaaagta tgaacaatgg tcctactaca gaaattataa agcaccactt 540  
aatgtgcagt gaaaatagag tgtaatagaa tgaacagttg aaaaacacct gagac 595

<210> 700

<211> 437

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI073257

<400> 700

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gaacaacaac tacagaaaag atactgtata gaacacagtg gacattaaac tgacagtagt 180  
attagatctt actgggtcctg gttcattcaa tttttaccac atcttgattt gtactggaaa 240  
cagttcagtg catgtatctc ctcagaaaac atttaactta gactcaaaa acaatagggc 300  
agtgcataac tgcgaaaacc ctaccacagg ataacattac aagcaaaaaa tgtacatggt 360  
ccaaagtcta gcaaaactca gaagttacta agaactcttg cacaataaaa gtcaccattt 420  
tagaaatgca aaccac 437

<210> 701

<211> 477

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI100769

<400> 701

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taattcttta aattccaagg gcatagctctg tgcttttcat catcctgaaa attataccca 180  
cgactgtgaa agccacatta atgtttgttc agttctgtct gtataagtaa cataaaaaatg 240  
tcaagtgtgt tgacccttca aaaagttaca ttttgcttac tgtagagaaa tgccttattt 300  
ctccctagaa aaaggataat attttctgat tgcgcaagca gtttatgagt gtgctatttg 360  
agtctatttt gacagctgcc tttcatttgt tattggagag cctcttcag cacgttcctt 420  
ctccccctat tctagccaag gtggggggtg tcaatgtttt ccataattat tcaaatt 477



<210> 702  
 <211> 476  
 <212> DNA  
 <213> Rattus norvegicus

<220>  
 <223> Genbank Accession No. AI100835

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 acaaacagcg acactcactg gacagtcagt taccctcaca catgggaagg acaaattgat 180  
 gtactgtgga gccagtggt gcaagatgcc agagtaggga cagacgtgtg gaagagcggg 240  
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 ggtgccttcc ttccactgtg acccatttct ggcttggact catgtggggc ggagaccatg 360  
 ttaaagggtgc taaagagaca agacactgct cccatttgtt ggctatcaag gtccagttga 420  
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<210> 703  
 <211> 362  
 <212> DNA  
 <213> Rattus norvegicus

<220>  
 <223> Genbank Accession No. AI100871

<400> 703  
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 ttcacaaaag ggaaagaggg gtggaggtga gggcagggac taggaggggt gctttttgag 180  
 ctgagtctaa aaaaaaaccc agtcaggatt aggggaaaaa aggagggagt ggcttccaaa 240  
 aggggacttg gaccaagctg agaggtacca tcctgcttcc ctaaaagctt ggacacagtaa 300  
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 cc 362

<210> 704  
 <211> 451  
 <212> DNA  
 <213> Rattus norvegicus

<220>  
 <223> Genbank Accession No. AI100878

<400> 704  
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 ggaaggcaga caagtgggtg aactgtagga ctgcacctga ctccaggaag agtgatgggc 120  
 agtgagtggg gactggtcca ggctggtaga cccaccaggg gatctggagg ccagtacctg 180  
 agatggtgtc taagccaagt agtatctagc caggccagaa catggcctag agaggtaagg 240  
 gtggggcctg gttgggggct cccggcacct aggggctggc atcaccaggg gcctcccca 300  
 gctgttgctg gaattccagg cgtgtctgcc gattggactc cagcagctcc tggagggcggg 360  
 catggaggtg gtcgttcttc tcctccaggt ggtccagaca agagttgatc tgatccaaca 420  
 tggagttgat ggcagcatac tttgcttccc c 451

<210> 705  
 <211> 498  
 <212> DNA  
 <213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI101006

<400> 705

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gctctcgagc ttagtataag cagaacaagg gactccaact cttgctttca ttgttctaga 180
aaatacaaaa gcttttggtcc caattttacac taatcttaaa ttttgggggg ttttcaaacg 240
cccatccccc attgtctttt tttttttttt aagtcacatc cttttgggtt tttgagacag 300
ggtctcactc tgtaggccag gtttgcccag gactatacac tctaggctgg cctcaaactt 360
acagcaatcc tctgcctaa ctgtcctgac tgctgggatt acaggtgtat gccacacccg 420
attccacaat tttctcttaa atttgggact gaccactgct gcaaggcctg gggtcagccc 480
ttactcgagt gtgcaccc 498

```

<210> 706

<211> 537

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI101130

<400> 706

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atttaagtta aaaatattta atatcgata aaaacattga ttgacagttt aacatggcac 60
atttcataca tagtcaaagg gtaaaacatt gctgggaaaa tttatagtct gtttggtaat 120
ttgttggtcca aataaaagca atgaatagtg atatatatta tgccaattat tacaaaactt 180
ttagagaaaa ctcagttatc tctaacatgt tctgctaaga gagagaaaaa aaaacgtatc 240
ttttaagatc catatgatcc tgggctaaat tatcagtgct tttctagtaa tctagaaatt 300
tcttcaaaca gcatttcttc tgttggttaa ctgttcttac tgattggctc tcgcagtagg 360
gaatgaggac atacagcact tttcacactg ttcagtaaaa ccatataaat taaagatggg 420
tgctaagctt aatattttat acagaaatgt gtaatatctc atttaattgg actgaatata 480
ttttatgagt acttgggtac agtggttaagt cccccaatc tgtgatgttt tgtgaga 537

```

<210> 707

<211> 565

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI101159

<400> 707

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acagcatcca gaatactttt attgccaaaa tcgaggtaca gcttgctcag gacccatagt 60
gggggtccca ccaactcagg gagggacaga tgataggaat gtgcttaaca aggtaagtcc 120
agcgccagaa acggtatggg aaggcagtg ggtccatcct ccaagtgggt ttgagaccct 180
gacctaaaag ctgatccaag cttatagtca ggtccactgt ccctaaggca ggccgagatt 240
ccccatccct gctgtcacag agactatgtg gcacccctgg gacaaacaaa caaaagcccc 300
tagctgggac tctaagttcc tagctctctt gggggccctt tcaaatctct ggactgtttc 360
cccgcaaac aaacccatt cagctggtag caagtgttgg gcagggactc taccacctct 420
caaccctgtg acagcccaag tagatggtag aaaggcccca gagcagggcg caccatgggt 480
gtggaattct caagaagggt gctcatggga agctctaagc aagcatgggt attcccttga 540
gctegttttt ttectaggac cttaa 565

```

<210> 708

<211> 560

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI101167

<400> 708

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ggtatatttc attttttatt gatagtgaca ataaaattac atatagacta attacttgtg 60
atcccttata aatctttaag gctgtttccc taacacaatt tgcacttcaa agtaatacaa 120
tgaactaaac ttttagaaga caattaaaaa taaaaataca ttaaagatat aagtcattgac 180
aggatatcga gatggcttac aagtgggtatt tatacatttg attataacaa tgtatagatt 240
tttacaagaa gctgggacta gggagttcct aagaaatctt agattttgta cagttaatgg 300
ccagattaat aatgtctcaa gtcctaaagt ccttaaaatg ttcttccaga gtccacaaaa 360
gcaagcagaa tgttgtaaaa atattccttag ttgcatatat cttttaaaat aaatttgaga 420
ttattcagta tgccttacat agataccatt aattgagaat cgctgaggtc tccagtgact 480
atcttttcac gttttcacag cttggatctg atcttgaagc cagtccacgc cttcctgcag 540
tccttctcct ttgagggcat 560

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<210> 709

<211> 579

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI101205

<220>

<221> unsure

<222> (1)..(579)

<223> n = a or c or g or t

<400> 709

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taaagtgaac aaaaataaat aaggagaatg tattcataca aaataaaaaat aacatagtaa 120
aaggccaaat gtttataatt gaacaaaact gtgtaaacaa acaataatgt aagcagataa 180
tttaataactt tcttagactc ctcactctgt actctgatgt ggacagactc agtaccaaac 240
ttaactaaag gggacaatca tgattactat gcatgacttt ttcttgaaac ggactgaccc 300
tgtttcaatg ttttatttgt tccttcaaag catctcactt ttctttttac atctgttgaa 360
acccttctga agttttactt catgaaaact gtgaatttag ctttacaagg agaataaaatc 420
cttttctttt tttttaattt aaagaaaaat atgagatcca ttacacagca gacttatgtt 480
ttacatctta caaaagggtt tgcattttta ttaactgatc cagcgtcaca ggatttctta 540
gatcctaaag tcttgaagta cagctgactt tnccttaaa 579

```

<210> 710

<211> 349

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI101226

<400> 710

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agaatttaag agtctggtaa tgttatatgc tactccattt accactatgg gatgtctcct 120
gagctttgga tcaaaatttt attggaaatc attgaaaatt cacctgttgc tcaatgaatt 180
gctcaaatga tgcattgact gacaatgtaa ctgatctcaa caccacaggg agaccctgat 240
gtgtaagtag agccctctga gagacttagg taggtcaaag aggggaagctg ttaacaatat 300
ggcttgacctg tcccaaatgg gagcactgaa gctagctact gacagaagc 349

```

<210> 711

<211> 473  
 <212> DNA  
 <213> Rattus norvegicus

<220>  
 <223> Genbank Accession No. AI101229

<400> 711  
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 caaaatatat ttctcaacaa ctcatgaaat ttgtctcaca aagtatggca tagaacagtc 120  
 acagtattaa gtattcaagt aaagtttgtt gttaaaatag gtgcacaggg gtaataaaca 180  
 ctgggatctg gccttcagag aggacaaccc atgggacccc atttgaaggt tgttacatca 240  
 cagaataggc ttgtttacat tgtgcgtctg atctttatc tcctacaccc cccccccca 300  
 gtcctgaaga acaaagatag agaaagaaga atcacttgct acgaggccct gcttcaaggt 360  
 ccctcagatg gaaaaacaga cgaactctgg tacttttagt agccccacta cctgggagac 420  
 atgactatca ggcttatgtc atttgagttg ataattactg ccaagaagtc ctg 473

<210> 712  
 <211> 374  
 <212> DNA  
 <213> Rattus norvegicus

<220>  
 <223> Genbank Accession No. AI101256

<400> 712  
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 tgtataaaca caaatccaca ttgagtcata acacagggaa ggaacaaagg acagattaac 120  
 aaaggaacta attggcagct atgtacagtg ggacacaatt gtgtcatgta cactacaaag 180  
 tctttacaaa ataatcatct taggtcaaca gaagatcaag caaccttcaa tgtcgtcctg 240  
 taagatgggt tctttacacc tctgctctc ccagcgtcct ccttttagtag ggctggtaat 300  
 tggtctgggt attgccaccc cctcgggatg ccttgccata agtgctctgc tgaccgctgt 360  
 agtctcctcg tgcc 374

<210> 713  
 <211> 464  
 <212> DNA  
 <213> Rattus norvegicus

<220>  
 <223> Genbank Accession No. AI101262

<400> 713  
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 gaagaaagca tctgatccac tgggacgagc tataggtggc aaaggaggc actatgtggg 180  
 cgctgaggaa gcagatattg aatgagtggt atgggctggg gagatggctc agtggttaaa 240  
 ggtgcttgca gccaaagggga cctggagggt aaaagaatag aaccaattcc tgtaaggtgt 300  
 cctctgacct tcacacacat gctgtgacat gttgacacac aataccata agcataaaaag 360  
 aagagctgtt cagggctagg gagacagctt agttattaga aaacttctgg ctacataaga 420  
 ctgaggacct gagtttgatc cccattaccc atgtcaaagt ccag 464

<210> 714  
 <211> 391  
 <212> DNA  
 <213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI101362

<400> 714

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tttttttttt tttttttttt tcatttttcta tttttttttt attctagtag tacagttttac 60
agccattaga tgatcaacaa caagacatca ctggttgga atccatttcc agagccaccc 120
tcaagttcag agcaattgac gtcgaagccg ctgcctttct ttcctaacac tctgcctttc 180
acacacagcg ggagcacgcg ggagcagctc cttctcacat gggcttctca cgattttcctg 240
gtcctccttg tgctgcagga cgctggagga cattccatac tactttgttt ctaaggactt 300
taaagaaagg aaggatgctg tttttctttt tgtccaacat cacgaaggca aaaataaatt 360
gcaagcagcc tcggttactc agaacagaac t 391

```

<210> 715

<211> 210

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI101443

<400> 715

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gcaaattgtc aagggtttct ttttatttta tttttaaaat tttatttggg ttttcttaca 60
gaggttgaca atgtccacaa caggtgtcag agtggtttaa aaaaaaccca cagaaataac 120
actgcaaacc ttttggggag ggcctgaggg aggggactta tctggatcat attgcacact 180
gccctgacca atccttcctt tttgcccaaa 210

```

<210> 716

<211> 590

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI101500

<400> 716

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ttttaaaacc tttattcatc actttaccaa cttgacacac aatgttaata acagcaaaca 60
caatgaacga aatgttgaca gacacaagct gttcacaaaa gcaatatgag ccaggccata 120
tgtccaacta ggtgactgga tgccttgacac tataggaggg acagcagggc catcctgacc 180
tgacattctg agcaagcgtg gtttagatgt cagcataagt gtctttgagt caggacacct 240
gtgacatcaa cattacccat cacactgata aagtataaaa ctccatactc cctaacatta 300
ataaaatagt gtaaaaatat atatcacata tatataaact taactccctt tcttgaaaaa 360
aaaaaacttag tacaaaactag tagtaatagc atattattcc tttcaagttt aagttgtaca 420
ggcttccttt gttgtttggc ttggtttagt taagaagtct aaaggaagag ataatttaat 480
catcccaaga tggccacacc cctaaaactgt aaagttcaaa atggtcagta gtatgttggt 540
gaggaagagc tgtttggttc aatgttgga ggctattctg tctactgatg 590

```

<210> 717

<211> 182

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI101534

<400> 717

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tttttgaaa aaaagtgagt tcatttttatt catttcttga taacaggtat tacgggtggg 60
gaaacaaaag gctcagtgtt taaagtagtc aggatccgag gtgcttggtt caaagcaatt 120
acaacaggaa aatactcact gagtgaatgt ccggtccctg atttgtgcc ttcactgcac 180
tt 182

```



tttggagaac tagaaaattc tctacatagg attttctcta atagagaaaa atatgcattg 480  
atgggtatgtg aatacgtaat ttcaggaggt agaactgaag aatttaggat ctnccttcc 540  
acctgcagtg aaagaagggt aaggatctca accccataaa acgtgattag taatc 595

<210> 721

<211> 484

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI101921

<220>

<221> unsure

<222> (1) .. (484)

<223> n = a or c or g or t

<400> 721

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gaatcaggca aatcacgaat gcataaatac cacagcacag ccagacttgg ggggtgggtg 180  
gggtcacagg ccacagggga ccatgcttca aaggcagtca gaggcattaa atacaggggc 240  
taaacgttag agtccatctc accgtacaca taactcatac attaaaagta aggagaccac 300  
ggtatgtacg tgcaagcagc ttgggtcaga gaaaatgaac aaggggagggtg gagccatgca 360  
caggaagggc ttgctgtct actctccatc ttcttcatcc ccacaaagtc acctgggac 420  
atagaatgaa tcanctgggtc tcggtaggat actgaaaagt cgtgtctggt gtccttaagg 480  
gcct 484

<210> 722

<211> 551

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI102009

<400> 722

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aatttagcaa tgacattcat cacaagcctc aacgctctag tctaaaaggg ctcttcagaa 120  
tccacttcac aaagctttgc acagaacagt ttaagcacca gtaagactgt tgtagcagt 180  
gctcttatcc cttcactgtt acagtcaaac atgcaggttc aacctatgtg tctgaccctg 240  
taaaatggat gccacactca gccttgtggt acaaagtta taaacacaat ataccaatac 300  
aaagttgaag ccattaaaaa gagcttaata acaactacca ggagacgatt aaatctggga 360  
agttgaggga atccgaagag gatttggaaa ggacacgcag acgtacatta cggtaaatgt 420  
tttactggga agaggtgcga gggaaacttc ttgctgttt ggaaagactc acttgctccg 480  
agcctacttt ctttctgcta ttatcttttag atactgcagg gcattgtgag cggcgtcact 540  
ctgggcattg c 551

<210> 723

<211> 384

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI102017

<400> 723

ctgtagcata gctcatttta ttgtttaaac agtttttgca taggaaatat atccgcttcc 60





<220>

<223> Genbank Accession No. AI102190

<400> 726

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tacaaaacta accagttattg taagttattc cccctcagga aataaaacat actatgattg 120
tcaaagctag atgtcagtct aagattttaca acaaaggaag aatgtgaaac taaggaaaag 180
aaaaagcaat cactcacaat gaccacaaaa aaaaaaaaaa aatccaaaga gtccgttctt 240
tcacagacat tgattgtctt ctctaaatta ataaagatta ttttaacata aactgtatta 300
aaaaaaaaacc cagaaactct tcaagtaact aaagataatg ctccaaggcc attttcacag 360
ctttttttgt ttgcttgttt gcttgcttta aatgccatta cagccaaatt aacatacatt 420
tgaccaaata tttccaaaac agtccagcaa cacacaatga gttttccatt cagtatctta 480
agcac 485
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<210> 727

<211> 552

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI102258

<400> 727

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attggcactg ttgacgggta ctgtaaacaa gatcacttgg tttgcatgag tctgcgatgc 180
tcggaagctg tgggtttcta cagtgaagctg atatatatgc atacagagat agggacagat 240
ctattagtac atggatgtgc acagttttgc atgggttactg agcatcagta aaaattataa 300
aaaaaaccac ccattttataa taaaaaggga gcatatgcta agacttgcta gtactggggc 360
tcgttttctg cacaactggc aagattggct aaagctgggt actaaactct actgcactaa 420
tgcatgatgg gtgttcatcc agaccttccg aacagatgcc ctgatttggt ggttctgccc 480
taggcagaag cctgcccact aggttctctg tgtttcatca accttctcta agttctacaa 540
tcttgaattt tg 552
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<210> 728

<211> 625

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI102560

<400> 728

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tataaattat tgcttcttac tttgataaat acacagcaca gtcatatata cagaggcaga 180
gaacatgaac tatgagaaaa aaaaatcaaa cactgtcaat ggcagtctgg taagtcaacg 240
aatgtttcat atttaccagc tcttataatg gtggaaaact acgaggtgta gtccctgaga 300
agttaggtag atgcccggcc tgtgggcttt ctatcttcta attgttatcc caagctgaca 360
gcatcatggc agtcctaagc aatgagacgt ccaaaggcaa gagtccttgc ttctgggtcat 420
tgatttcatc ctggtgttta ataacagcgt aatacgaata caaataaata ggctatgcaa 480
ataaatattc ctctgctaaa aatgcttact tagtatatac agctttgctt tatacagtag 540
tacatttctt ccgacttttt ggcaattttc aaaatgggtt ttccctagag caaacgggc 600
ccactcagta atgagtgggc tgaaa 625
```

<210> 729

<211> 405

<212> DNA  
<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI102562

<400> 729

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ggcttttatt attcacatgc tcggtagaaa acgggggttta gtaaactggg tggaggtgta 60
cggcaagact ctgagttggt ccggaataa tttacacctg agggcagcag cactgttcgt 120
cacttcaggc acagcacgtg cacttgctcg aggcaccttt gcaaacacag ccctgggcac 180
atttggagca gccacgggg cagcaggagc agcagctctt cttgcaggag gtgcatttgc 240
agtttttgca gccgcaggag ctggaccagg tgcaggagcc gccggtggag caggaccagt 300
tgggggccat tccgagatct ggtgaatctg gagcaacggg gtaagctaca agaaggcagt 360
ccctcgtgcc gaattcttgg cctctagggc caaattccct atagg 405
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<210> 730

<211> 564

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI102576

<400> 730

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tttttgtttt tatgtttttt aatcatggag aaggggtaga gaaaacagct accaaaaagg 60
gaaggggaaa cttaaaggct actaaggagg gttagggga tttcaactta ggacaatatc 120
tatgagcaaa aagcaatcac acctgttcc cggtattgca ttaacaaaac accatgtgaa 180
gtcgggggaaa gacacgctgg tgcaccctgc cctgcctccc acctgttaa gatggtgcta 240
ggatcctctg agccgacccc tgggcatgtt agtccctggc cccaggacag ttctcaactc 300
tgacaagctg ctgtgcagggt gaagagggtg tgtccccttg cagtcagttc actgctgaca 360
ggcttaagga catggcaagg aaaggacat cactcttttc tgggtccctga ttggtctatg 420
ccacatgcc a tggctcctgt cctgggcata tgcccctctg gctctcttgg cctcataagg 480
ggtacttcaa tgagtctggg caccaagtac aggataaaat tattcctatc ttttaaaaaa 540
aatggccaaa aaggctcttt tggg 564
```

<210> 731

<211> 478

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI102578

<400> 731

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gaaatgtttt atatcaagct atatatatat atctggattc tgtcctgagt acatgcatac 60
aaaatcaaca ctataaaaat aattcacaat attaattgtc tgcacaagtt aacatctaca 120
agcatacaaa ggctgtgtgc attgcttgcc ctggccagct cggtaaagca agtacctggg 180
aaaggggaca gaggagagac ttcagatccc agcctcgaac catgaggaag caagcctggg 240
tcagggctga gcagggtttt catggctgga gggaatggga taagtgaggc tttgcccctg 300
gccctaggga gctggatggg gctactcagg ccgttaaaaag gcagactaca gtgtaggaag 360
gcaaaggctg ctctacccaa gacaaataat cactggcaag aaatctctca catgctcaca 420
cgtcaactcc ctttagtggg gtctggaccc cactggacca acatctgtcc aatcatgg 478
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<210> 732

<211> 547

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI102634

<400> 732

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ccttttcaat gtttaatttt gttgaagtta aatgttggcc gtaggcatga catcacagca 60
ttaagacttg caccogctga gttttctcaa gataattcat ctttatgcca tgttathtag 120
acattgtccc agaatagctt gaggtataat tcattcagga actatccttt gcaaaggaga 180
tgatcagcat ttcaatagta tgtcttcctg gaagggtaga ctctgctata tcttccttgt 240
ctgcatcaaa agactccaga ggaatgtgca cacacctcat atcccaactg tagagcaagc 300
cttccagtga ccagtcagca cttctgacct ggtatgtaga ccagaattga actttgggat 360
tcttctgcat cagaaagtat actgtggcta aaatgctttc aaagtcttct gggtcaaaga 420
aaacatcaga tccaagaatg atgtcttggt gtggcaatga caaagtgtcc tttgatatgt 480
ggccccacgt cagtctaca atttgcacct gtggcaagtt attcattctg gcaactttgc 540
caacaaa 547
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<210> 733

<211> 581

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI102739

<400> 733

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gattctcaaa gttttttatt tagaatataa tttttgagac aaaaaaaagc gggtcatggt 60
attcagcaaa ataaatgtaa caagttcatt taaataaggt agattctaga ctctgtaact 120
ttttttccct agctacctgc ttttctgccc cttggaatct gtcgctgcta aacgaggggtg 180
ttttccaagg taacgcagct gtaagagaag gaactgtttt atatatctat atttcaaata 240
tataaaaatt gaatgactca aatacacccg tgttctcatc caaccaccag agtggttaagt 300
gaagcggagg aaagaggcac aggaagggtg actgaggtgt ctccccctgcc tgcccgttcc 360
tttaacttct caacagaagc caggcagctc tggaatgctc tgaaacggat ggtggtacat 420
acggattgga aagtggcggt caagggcaaa caaaaactgc tcccacatca tctttcatta 480
aaatccaaag agaaacgtaa gccacacccc tctcccgcc aagccatcgc tttacacaga 540
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<210> 734

<211> 587

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI102750

<400> 734

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ggccctggcc tctgccccgg ccagctgctg gagctggagc atccacagtg gagcgggggt 180
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cggtgatgag caccatgggt ggctcccaca caaatgcctg gaagttgtca gcaatgtcct 300
cggtgttgat gtccacccca taccacatgc cccctgtgc atgtcgagcc cgcagtttgt 360
tgaggatgtt tgtggcatca aagccagcgt tgtcacacag ctgtcgtgga ataactctca 420
gggccttggc atatgccccg atcaacattt aagagggcaa tcttgggggt cttatacttc 480
ttgggctgca tttcaaacc agcataagag aacgtcttct tgaacgcaac accagccact 540
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<211> 700

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI102753

<400> 735

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ttataccaac cttttcctat taatgcagtt tctgattaga actaaacatg tctctttctc 180
aatttaattt aggatgaagt aatagaactt ttatgatcaa cttcataaac tgtctttaag 240
gagaaaacga atttttaagt ggggtgtcacc atatttacca gtgaactggc tgcattggtg 300
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cggggaactc aatggctgtg acatccaagg ggagggcaca taccatacat cacaatgatg 420
aaagttaatg ctcttaccct ctgagtccat gtaaaaaaac ttattactct cattcaaac 480
aactgaagtc aaacagttta aaagtcagaa tgaagaataa aactattttc ttttcacaga 540
gaggaggac actccttcag ctccatttaa agtgaattct gtgctgagtc cctgctcctt 600
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tcaaagatgt tccacacaaa aaggctattg gtttgacttg 700

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<210> 736

<211> 531

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI102812

<400> 736

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agaaggaacc ccgtatctct aggcactgcc aaggaatagt tcaagcctat gcagatacag 180
aagagaaagc ttccaattta gtccaaagga aattttactt ttcattccata ttaattgtga 240
aatagatgct tcaggaaatt taagttttca caaatacaca caccacacagg ccaggtagct 300
ggattctctt ttgtaaagac cacagatcat gttaattagt tctaccctcc tcagtggatg 360
gtcaactcac ctctctatat aaacacacat gagaatttgc accaaatctc aacagccagg 420
caaaactcta gaactcaaaa attcttgaag cttatacttt aaaagtattt ttttaaagtg 480
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<210> 737

<211> 565

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI102820

<400> 737

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gaggaggaca cacatccttc catgccctaa cccctgccc gcccacaaact tctacctcac 180
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cacagagaca tctccacaga ctctggtgtg ccattccctaa gtgacaactg tatcgcttca 300
gaacttaacc cccaaccctt tttctaaaca ttttctctgt tgggggtggg aagaacttca 360
gttacccttc aactaagaaa gtaaagcagc cacatgtctc ttccacatg ccaactgtccc 420
agcttcttcc tctgaggagt gtcttgcttc aactcttcac gttatccctt tagtgtgaaa 480
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agctcctaca tacaggaaag cttgct 565

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<210> 738  
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 <212> DNA  
 <213> Rattus norvegicus

<220>  
 <223> Genbank Accession No. AI102868

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 acagccatgc gatcacagtt tgggggtggg ggtgtaactg agttttgttt aacgggtctaa 180  
 ccgaaaagca aagaaacaac cttttcttct acttgtggca agaaaagtta atcatggaac 240  
 tcctagatcc ttctcatgaa gcagctttaa aagaaatcgc ttctccagag cttcatcccc 300  
 tttgctgtta ccaatgcgaa acggaatggt catcctgctt ctattctggc gctccaccgg 360  
 acacacataa aatccttgag aattatcaat aatctcataa atcatttggg atttgacgga 420  
 gctgagcttc tccatggctg cggacccacc attgttactg atccattcca ggatcatgcc 480  
 catgacgta 489

<210> 739  
 <211> 562  
 <212> DNA  
 <213> Rattus norvegicus

<220>  
 <223> Genbank Accession No. AI102871

<400> 739  
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 ataccgctcg gcccactca ctcacaccag tgacatgtga gggtcagacc cctaaaattt 180  
 aggcagctgt tggggaagaa ctggttggtt tcaatctttc ttagaaaaga aaaaagcaca 240  
 gggatgcact tggccatcac gatgctagcg atgtttgtgc actaactcat ggcagttaac 300  
 actgagaact cctcctccac tccacacaca gtgacatcag cctcagtctc agtgctgctt 360  
 gtactgactt ctcaattcac aggggctttc ccaaaaagta attcaagttt atggaagtga 420  
 aataaggcac aattaatatt gttttgacct aacggaagga aaggaaagaa ataaaactgg 480  
 tttcaaaata tcttagctgg gaactgttga ctttaattcta ctggaaatcc cttcttcaaa 540  
 tcttataaag acatttttcc ct 562

<210> 740  
 <211> 585  
 <212> DNA  
 <213> Rattus norvegicus

<220>  
 <223> Genbank Accession No. AI102905

<400> 740  
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 caatttatca aatgaaactt tactgagaca taagagaata tgtgttaaga gttaacatgg 180  
 ctaaaaatga gacatcacag aaatagtaag tccataaacc tagaacaggc actcaataac 240  
 agaagtgatt aggtgagcac aactacaaa ccggtatttg aagcagcttc tagcaccaac 300  
 acattggcag gaccagcagc gaggcaggtc attcaaccaa ggcactctggg aataggaggg 360  
 agatctcagc caccttctgc ttctactccc ttgtgacaaa gggggagggg gaggctcaga 420  
 gactgtatgt tcctggctct aagtcgctg gccaggact gacattgacc accggaaagt 480  
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 aacaagcttt atagcatagt tcaggatgac atttatttcg ttgga 585

<210> 741  
 <211> 573  
 <212> DNA  
 <213> Rattus norvegicus

<220>  
 <223> Genbank Accession No. AI102943

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 tcttcagtgg caggtggcac tggcctcaga cccgtaacca gctgccaggt taagagtagt 180  
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 gagccaggcc tcagcagggt ctagagggat gcaagcagct ggtctggact cccagaaatg 360  
 tatctcaggt agggaaactg aggctggggg ggcagtgtag aagggtggga gacctcagaa 420  
 ctgcacacac tccagaccag ggccaactcc tgctcagtca ccatcactgg gactgagcga 480  
 agggacgctt gcaggaaggg ccagaacctc acgtgggtca aatccagctg ggggaccagg 540  
 tgggttcaat gggggcagaa gtgacaacag gcg 573

<210> 742  
 <211> 394  
 <212> DNA  
 <213> Rattus norvegicus

<220>  
 <223> Genbank Accession No. AI103071

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 ggattcttta gccattacaa atggaactga tgttgacaga ccttaagggc tcccagtaac 180  
 ctgctgtcct gcaaaaggaa acaatgcca tccactccat tgaaacagaa ggcataatta 240  
 tcgaacagtg cctagaaaaa agagggggacc gagaaaagta cagtgttgcc tgctaggaaa 300  
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 tgcacggaac tgaaaaaaaa aaaaccctcg tgcc 394

<210> 743  
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 <212> DNA  
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<220>  
 <223> Genbank Accession No. AI103078

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 ggctgtgtg ggtcctggcc ctctgtggtc ttaccactt agaacctaga atctaggccc 180  
 agatctctac acagtttgat gctatcacia agtgggggtg ggagagggct ctctatttgg 240  
 gcaagctcct gcagtagcct ttctttgagg gcagtgacct cgactatcgc tgccctgggt 300  
 taatatatac agtagcttca tagctcagat gcctatgtcc ctttgacagc ctctgagtc 360  
 ccagggtact atgactagac aaggggcagc cagaggttgc ctctgacaca cctgggggga 420  
 gtggggcagt gtctcaccac ctgttccctt tctccagcgg ttccagtttg tggaaatccc 480  
 cctcgtgcc 489

<210> 744

<211> 432  
<212> DNA  
<213> Rattus norvegicus

<220>  
<223> Genbank Accession No. AI103097

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caggagcctt tcggagaggc tatgaccggt attacaacaa gtacatcaac gttcgggaaag 180  
gcagcatctc agggattaac atgggtgctgg cagcctacgt ggtttttcagc tactgcattt 240  
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agaacactgc atggccgagt gtaaccgcct ggcccgtcc gatctgctta accttcacac 360  
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aaaaaaacct tt 432

<210> 745  
<211> 586  
<212> DNA  
<213> Rattus norvegicus

<220>  
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<220>  
<221> unsure  
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gttcaggctc ggaggggttca tcatcagtgg taccctgggt ctcaaggctgc agtggggatg 240  
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acacatcacg atttttgctg ctgatgacct ctgagccctc tccatcctct ggcagagggg 360  
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cgcggcagat ggggtacaac ggtgtgttct cactgaactg ggccaagtcc acactccggg 480  
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<210> 746  
<211> 479  
<212> DNA  
<213> Rattus norvegicus

<220>  
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gtgggacaca gggcagctag aatccagaat gtggcgcttct ttgtgaaagc gactgaaaga 180  
ctaccacaga ggtggttagag aaaatgatga tgcagataat gaccatgagg acactgaaga 240  
tcaggagcgt gatgttcagg cacttggcag tggaggcgta ggccctgggt ccaatcacat 300  
tgggccaccat cttcctgtcc ctggacttca cagagtaggc ataggcaatg aagcccaggc 360  
agcaggcatt gaagaagagc gtattgaaca gggaccagac cacatggtca ggcacagaaa 420

cctctctggg catgttgatc acggcggtcc tcacgacagc tgacttggtg gggtccccc 479

<210> 747

<211> 498

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI103224

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tcccacacac ttgccctggg aggctgtctc taggtcctca gaggcgataa ggggttcctt 420  
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<210> 748

<211> 501

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI103246

<400> 748

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cgtatcaaac ttggagccca tattttcatc caacagatga ccaaactctt cagcagagac 360  
aaacaggctg gagtcattga aacttttctt ctttttcttt tgtccttgaa atgaccagc 420  
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<210> 749

<211> 405

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI103548

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cactagaagc agacatgagg ttttctatat attgtccaag aacttgattt tccgatttta 120  
gcttcagatt ttcttcttta actgcactta ctcttgaga aagatcttca agtgtgtgct 180  
ggagctccaa cacctgatta atgagtcgag tcttttcttc cagttccact tgattttcag 240  
catcaactgc gtccatgtca gcattcatca tcttggggaa cagacgttca gctcccgaat 300  
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<210> 750



<211> 514  
 <212> DNA  
 <213> Rattus norvegicus

<220>  
 <223> Genbank Accession No. AI103550

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 cacctcccca caggcccagc atttccaagg agaagacacg aagtctcgga ccaaaatcca 180  
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 gtgtttatct gcatccatta agaagttggg ggtg 514

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 <212> DNA  
 <213> Rattus norvegicus

<220>  
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 aggcacaccc cgacctgcc attctaattc gcgaatgttc agaggtgcag cccaagctct 180  
 gggcccggtta tgcttttggc caagagaaga atgtgtctct gaacaatctg agtgctgctg 240  
 aggtgaccaa agccatggag aatgtgctaa gtggcaaagc atgaagtgtc tccactgagg 300  
 actgaacaag cccaccagaa cctactggac tggagacaat gtggggaaat gtgttctttt 360  
 ggttcttata aagcttacgc tgtacagtgt tgcttcagaa tgttctctc attacctttt 420  
 ccctcttact gcgcaaacac tgaggcaaag tagctttata taaaaatact atcttatttc 480  
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<210> 752  
 <211> 575  
 <212> DNA  
 <213> Rattus norvegicus

<220>  
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 gagaccatag aagaaaatgt tacacagacc gaatcccaag cgttgcgat ttaagcatca 180  
 ctaactgtac tgtattttcc caaacatctt ggggagtttc gatgggattg ttccagcgtg 240  
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 tttcaccag ctgaaagcac ataagccata ggacatgaaa ggaactgtca ctagggccag 360  
 agggcctgat accttggtca gecacaaaac actcttggtg ctacagcaac cagtttgcaa 420  
 acagaaacga tacaggataa accaaggctc tgtgataaca tcagggctaa gtatcccttt 480  
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<210> 753

**07-06-2019**

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aatccaaaaa	gacataattc	attctgagtc	cagatcagag	tcagggtcac	ccacggagac	180
ctctgcagtg	ccagggtgtc	caagccaagt	ttccccctg	aggaaaacc	aacagactac	240
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<220>  
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271

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 <213> Rattus norvegicus

<220>  
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 cgcataccct tagaacagaa tagaaccggg aaacaacccc aacagtcggt cttttacaga 300  
 agatagaaat tgccttttgc acagctgatg ttgaaaaaaa atgctattaa catgttgtag 360  
 aaaaataaat accgttcaat agactgcctg ccatccagcc tgaacttaca gggcacagcg 420  
 cgcgcaccag gcttggtgcc tctcctagtt actggccaca tgattcagaa cactttcagc 480  
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 <213> Rattus norvegicus

<220>  
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 agagaagtat gtgccattca agtccttgga actggaactc acagtctgtc cttcttgtga 360  
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 tgcgttgatg cactcctctg acagccacct tgctcgtaaa gtagtgcact cctcctcggt 480  
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<210> 758  
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 <212> DNA  
 <213> Rattus norvegicus

<220>  
 <223> Genbank Accession No. AI104523

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 tggtcacaga ccacattctc atgtttacaag attcacatct ctggtaatcc aaggactgtg 180  
 gtacaaaagg aacacttcat agctgggggtc actacagttt gctagaaaca tcagttactt 240  
 tagaatactt taactataaa atatattgaa tttccatata ttaaccatat acatgtgtac 300  
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 cacaccagcc tgaactcccc ggggtgaggcc ctgtgccatt agctgcaact gtccatccaa 420  
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 <212> DNA  
 <213> Rattus norvegicus

<220>  
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 catttcttct actgtccac tcagcatagc aattcagcaa atgatcaaaa gggtttaca 180  
 tgcacaaatt agtccatata agaattcatt caatttgaaa aatagccagt tccgtcatat 240  
 atgccaacac accaataagg tatttatgac acaggatctt tattttccca tccgtgtgtg 300  
 ccgaagctac agacgttgag acgcgaacca atcttgtggc tgataagtga attctgaaat 360  
 gcctatggaa atgtgaataa aggcagttca taaat 395

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 <212> DNA  
 <213> Rattus norvegicus

<220>  
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 acttttttaa tgtgtaaagt tagccaactt tgtaatacag taactccaca tggcagtgtc 180  
 catcggcaga gaaggaaagg ctcagagcaa ggacttttagc taattacaag tgttaccaat 240  
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 tctgtaaaag gcaaagacaa tcatactggc aagggtatata acaaattctg gccaaactgag 360  
 atcacaaggc tcaacgccat caggtgtttc ctcagaacct gacggcttct cagaagcacg 420  
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 <212> DNA  
 <213> Rattus norvegicus

<220>  
 <223> Genbank Accession No. AI104675

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 gtcctctgga tagagagtgc caagggtacaa aagcacaaaa gccctcatgt gggaggaaag 180  
 tgagcttcat cttgttacat cttgatacga agagcccca cgcgtatcct caaggggaagt 240  
 ctggtcctgc ctgcagtggg gctgcacaga cttgagcttc tcacagactt gagcttctcc 300  
 agttaggcag gtaagtggag aagacaaggc caacctcagg tactgagggt gcagggaccc 360  
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 <212> DNA  
 <213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI104683

<400> 762

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ttccctctag ctcagacccc agggccctcc caaagcagca aaggtcccag ggaccttgaa 180
cctggcctcc ctaaatacaca gcagaaaact agggcttcca aaaccctcca ctgatagaga 240
agaaagcaag caggcttgtg agggagagcct tctgcctccc cttgtggaag cagtgcagct 300
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acaggagacc tggagacaag gggccaactg aacagtggcc tgactccatc ttaaagacgg 480
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<210> 763

<211> 373

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI104798

<400> 763

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<210> 764

<211> 422

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI104897

<400> 764

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cgctgtgtgc ctgcagactg cagcctaagg accgtgcctg cagactgcag cctgagcgct 180
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ctgcagactg cagcctgagc gctgtgagcc tgcaaaactgc agcctgagcg ctgtgaacct 360
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ca 422
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<210> 765

<211> 547

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI104908

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 tggcacagga cttaataaac ccctcagccc attccgttct actcccaaaa agaataacct 180  
 cccaacttat agaattaaaa acaaaactgt agttccttcg catctccatg atttcacatc 240  
 ctgcaatggt tggcaagtgt tactcgcttc ctgtgacctt tttctcagca tttcccttca 300  
 tttcgtctat gcttttgtct gtgcctcttc ttaggttagga acttacgtgc tcttaaacat 360  
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 agtgagggag gaggaaaagg catatcaaat gagggaaacat attaaagtga gtatgagcaa 480  
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<210> 766

<211> 503

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI104979

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 ttgcttttca gtttctgtct ggtacgtttt ccgggtctct tgtttgcccc tttcttccca 180  
 ggcttctctg ggcccttgcc atgagccacc ttgccccgga agctggagac atcgctcgtg 240  
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 ttgtatcttc gtttggcatt gggcccttta cttatctgct ggccctttagc tcctcctgcc 360  
 tttgcacctc gttccacagg cttctgatcg ccctcaagga aatccagctt atcagagaag 420  
 cctttctggt acttcttgat ggcattcatc atatgcgctt tctcctgctg cctcttgtga 480  
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<210> 767

<211> 703

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI105065

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 acccagatct gatgttagtt ccctggagag atcttttccc ataagccatc tttatttttt 180  
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 aaaaacatca aggtagatct aatatggtca acaaagtggg ggggctcagc cagaggagaa 300  
 gtagaaaggt tctctaggat ttgcttggtc tcttgctgca accagaaatc cacatgtggg 360  
 aatggcgctc aggaacacgg gctatttoga agttgttctg tctttgcac ataaatgcta 420  
 atcattgggc ctctgctaa agctctcgca gcacgcagtt gctcctctgg gccacgatct 480  
 tgaaaggaag ctctgtaaat ctctgcagtt ttaatgttga ctgcgatgcc ataaatgatt 540  
 ggaaagtgat tttcatthtt tccccggtca tttaattctg ttacacataa tgtcactaag 600  
 tgaatgtcat catcctgttt gtcaaattca ctaagaagct gatgcgtaag tttctgtgac 660  
 aactgcctat catcactgaa tcctcccaca aggtggactt tca 703

<210> 768

<211> 575

<212> DNA

<213> Rattus norvegicus

<220>  
<223> Genbank Accession No. AI105113

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aatagtttag tggtaaaaac tgtacccttg taggcctaca agaagtttgc aatctttgaa 180  
aaagttaaaa ccgccttcaa gattactttt tatattttaac tgtacaatac aggtattgac 240  
caattttacaa gtattttacat aaactaacia caattttatta aacagcatag cttgatctga 300  
actactgctt tcctgtggaa aagaaatact aaaaaagatt tttgtaaaaa cattaactt 360  
ttatttataa ctttattgtc ttatctaaaa cactttgtag tggcttactg cctaaaaatt 420  
ccagtttaga ttataatcta cagacattgg attccacaaa taaccttagc ttcgatgttt 480  
cagttttctg tttcctatca tgaggaaaat aaaaccagga aaacggaggt gaagcaacag 540  
tgcacaattc actgtgctct cagaaaacat aagaa 575

<210> 769  
<211> 596  
<212> DNA  
<213> Rattus norvegicus

<220>  
<223> Genbank Accession No. AI105131

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gagtgtgga agacagctcg ggcatactga tgtagcacgc ggttcattga acagtgttgc 180  
cagggcagca gcccttccag gaagccaatg tggccacccc gagctgtgat gagcagggcc 240  
acgtagggag acttctgggc agcctgcaga gggagggcct gcactgggga gaagggatcg 300  
tctgtgcat tgaggcagag gacaggggtg cagatggcat ccaccttggg tctcgggctt 360  
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gactttctgt tcctggccac aagccggcag agtccagcag tgaggggctg gttgaagagc 540  
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<210> 770  
<211> 570  
<212> DNA  
<213> Rattus norvegicus

<220>  
<223> Genbank Accession No. AI105145

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aaccatgtaa aattttacgag tgcagagact tgcactggaa agcccaaacc tataaactcc 360  
aactgtcacc aggacttttg cagtgtcact tctactgtca tgtacacaag ccaagtagag 420  
accactgtc atattcttaac cataaacatt tcttcttaaa acaatcttac agtctgattt 480  
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gaaaacagtg ctttgtctta aatattcctgg 570

<210> 771  
<211> 641  
<212> DNA

Figure 1 consists of 12 histograms arranged vertically, each representing a different value of  $n$  from 10 to 120 in increments of 10. The x-axis for all histograms is 'Number of non-zero elements' ranging from 0 to 120. The y-axis is 'Frequency' ranging from 0 to 100. The histograms show a distribution that is roughly bell-shaped and centered around 60 for  $n=10$ . As  $n$  increases, the distribution shifts to the right, and the peak frequency decreases. For example, for  $n=10$ , the peak frequency is around 100 at 60 non-zero elements, while for  $n=120$ , the peak frequency is around 10 at 120 non-zero elements.

<223> Genbank Accession No. AI105167

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acaagcaagg	tagtagtgag	atactgctct	gcagttctcg	atggtctcat	catggccttg	120
gagagttggg	acccagagca	gagcgaagct	aggctcctca	gaaggaggac	cccgactgtg	180
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gccttcacct	atgagattag	ggtaaaaactg	cttgtcccag	gcgctgtaca	gtgatgtagt	420
gacgtaaaga	cgcttcccat	ctaagctgag	ctggatcatc	tgaggacctc	caggaactcg	480
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<211> 531

<213> Rattus norvegicus

<223> Genbank Accession No. AI105184

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ctgatggttt	gcaattcagt	gatgtgaaaa	ataaagactc	tttcagaaaag	tggcatttgg	180
gtccctaact	gtaggaagga	actgcttagg	caggtggaag	agaaagcctt	tggcctctgc	240
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gaaccaggg	catcacacat	acgagatgac	accctagcc	cttctattac	atttcaagct	360
acggacagta	atTTTTTct	ttaaaacaaa	atTTTctgtg	tatcatcatt	ttgccggcat	420
gtgtgtctgc	acttcatgtg	tacctgggtg	cctcagcacc	cagaagagga	tgctgattct	480
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<211> 496

<213> Rattus norvegicus

<223> Genbank Accession No. AI105188

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<211> 603



<212> DNA  
<213> Rattus norvegicus

<220>  
<223> Genbank Accession No. AI105196

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caagctcgcc gagtgggcac agggacactc gctccaaaag gagctcaggt ggaagcgctt 180  
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accacaacc atcacttttg ggcaacagca tctcactata tgggaataag aaacatgtct 300  
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aaaatctgtt taaaggtaat ttctgttaatt aaatgagaaa aattatTTTT tccatattac 480  
aaatgccttt acactataag acctagaggg gttaaaaccc ttcaaactctg ggctctcctt 540  
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<210> 775  
<211> 572  
<212> DNA  
<213> Rattus norvegicus

<220>  
<223> Genbank Accession No. AI105205

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aggatcaaca ccaaccgggt cttcagtgaac aactgtaaa actctggata cgaggaataa 360  
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<210> 776  
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<212> DNA  
<213> Rattus norvegicus

<220>  
<223> Genbank Accession No. AI105243

<400> 776  
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gagtttccac gtgacctaaag ggcctacact gggtcgcaca ggaaaacgag aagtctgagc 180  
gtcacacgct gtggaagta tctgatggca aggcttcctt ctgtggaggc cacttcccat 240  
gagcactcac gcegggtgtg cacgcctcat cccatccact cgctgtgaag ccttcacctc 300  
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tgcctagctg acagactgc cctt 504

<210> 777  
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 <212> DNA  
 <213> Rattus norvegicus

<220>  
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<400> 777  
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 ctacgtaaat gccacaaatg cacaataccg tttccttgct ctatttacat agctgatata 180  
 tctagtcaaa caaaaagatt ccaaagaaat aacctcgaaa cgcttgaaa aaaattattg 240  
 cttttctttt tctaagtcag gcgggtgagg ctgcagaaag gaagagttct ggtaggtcaa 300  
 ttacagtttt gtgattgctc ccgctaccgt gactgcacat ccaccagggt ccagtcacga 360  
 gaggacagcc tctcacactc ttggtagcat ccgctcagcc tacaacactg aagaagaaaag 420  
 ccacactcaa gacacaagga aaacaagtca gtccagtcta gagaagaaca ttccgggaaa 480  
 cagagtacca acaccttctt agaacatgga aattaaaaac aactccgtca gagctacctc 540  
 gccaaaggagc atgttgaaaag tccaaaattg caccattcat cagtgtctca agccctgtgg 600  
 cagcgtctca gtcacttacc acaaggaaac aatgagtttc aaactactt 649

<210> 778  
 <211> 588  
 <212> DNA  
 <213> Rattus norvegicus

<220>  
 <223> Genbank Accession No. AI105444

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 ctaccagcag gggaccacga aaagaagccc tttcttctgc tgctgtgagc aaggctggaa 180  
 aaagagggct cattttttct aggggaagta gccaggatca gaaatactga gatgtgggct 240  
 ccccaaactc cagcggatca acaaatgaat agaattttca tctctccaaa aatccgtcac 300  
 tgttggggcg ggggcgtccc agtcagggga cgatgggtgc gacatgggtc ggcctgggtc 360  
 aggaactccc agtcccagtg ggctctggcc gctctgcaca cgtgaacgga tacagagggg 420  
 gcttctacac ggtgcgatca acatttcctt tataaacgtg agtggattct ccaggcaaac 480  
 tatgcactat ttcagtgttg gaaagaatca aaggaaagta aaatcagagt ggagttaaaa 540  
 ctgtgctaaa ttacagtatg gcttattatg aactagattg caaaaggt 588

<210> 779  
 <211> 380  
 <212> DNA  
 <213> Rattus norvegicus

<220>  
 <223> Genbank Accession No. AI111344

<400> 779  
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 tgctgcagtc atttacactg gtttagagagc atctaccagg tcatcgtccg tccactcctc 180  
 ctcttctgtt ttgggtttct ttgatacata gtcacgtctc tcgtagcctt tctcttctt 240  
 tgtaaccata ttaagtgcaa ggtcagaaga atgacatcgc tccaacttct gtttcagaat 300  
 agcaacttct tcagatctgg gtggctcata cttttttact agatttctca tgcttttcat 360  
 tatatccagt agctgtgaca 380

<210> 780  
 <211> 448  
 <212> DNA  
 <213> Rattus norvegicus

<220>  
 <223> Genbank Accession No. AI111401

<220>  
 <221> unsure  
 <222> (1)..(448)  
 <223> n = a or c or g or t

<400> 780  
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 ctgttgctgc ctttagagtg gctacctatt ggcaacaagc gccctcagca gagcactgat 180  
 gagtcctcag agctcgtcgg acgtgatgtt caccttgggt aggttacatt ctttactagt 240  
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 tttctgcgag tgagctaagg gtaacacctt ttcattcagc agcatttgta tctggaattt 360  
 ttcttgaggg gtctgtgcgt cttcacaatg gtaaagcaca natattaggt ttgaagcata 420  
 tggtagatg tgaccacttc ggaactcc 448

<210> 781  
 <211> 413  
 <212> DNA  
 <213> Rattus norvegicus

<220>  
 <223> Genbank Accession No. AI111413

<400> 781  
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 tgacgatttc cagttaaaaac cgagtctggg tggaggggat ctggaaaaca cgaaagatgt 180  
 caaatggtgg cgctgggtggc agtagcagca gcggcagcag cagcagcagc agcagcattc 240  
 tgtgagagga taggtctcag gtccctgcaga gactgcagag acactttgca gtcccaaggc 300  
 caccacacgg ggccccagct gataaataaa cagcgccaca cacacacaca cacacatata 360  
 cgtgcgctgg aaacgagaga caaactggaa gtctcctgca gtgaaaaaat aat 413

<210> 782  
 <211> 465  
 <212> DNA  
 <213> Rattus norvegicus

<220>  
 <223> Genbank Accession No. AI111558

<400> 782  
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 catgacaaac tcctgtaaag caaaataaat tactctactt ttggacagtt ctggaaatta 120  
 agaggtgccg gagagagagc tgctctcttc taaacagggt gcctgctcta ccacagacaa 180  
 ggcttgacgc ttgatgtgca acaggatatc accaaatacc aatcatccag ttttaaagaa 240  
 tcagcgtcag aatcaactct tgctttttta catggtgttc cagaagtttc tctacttggg 300  
 ctacagaagc aaagccatag tgttacacaa tacttatttc tttaaaaaaa aaaaaatata 360  
 tttatttatg cccatgaatg tcaaactcaa gtttcaatta aatatattta tatacaatta 420  
 ctttgagcac cttgctgcac aattttaaaa aaacgcctcg tgccg 465

<210> 783  
 <211> 478  
 <212> DNA  
 <213> Rattus norvegicus

<220>  
 <223> Genbank Accession No. AI111559

<400> 783  
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 agtgcattgca aaaggagtga agcctttttc tcttcatcat tttttattgt aagaaaatac 180  
 acagtttgaa aggatgaata atgcagtatt tatgaccaca gatagggagc gtgggtaggg 240  
 gaaggagaaa taaacagatg attggacaga gaagacattg aactccagag actgaagcgg 300  
 gaggtgggcg tgggggaggc gaggaacagg aggaggaagt aaaaaaattt tgatcagaga 360  
 aacagttaaa atacaatatg aaaataagca attcctctcc ttagattccc tctatacaca 420  
 aaatacatga tttgccaaag cccaattttg tgctactggg attccctcgt gccgaatt 478

<210> 784  
 <211> 504  
 <212> DNA  
 <213> Rattus norvegicus

<220>  
 <223> Genbank Accession No. AI112012

<400> 784  
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 tgagatagag ttgatgaagc atggccttta ggtcaggact agctgggttc aggcacatct 180  
 tgtgtagaaa tctaaggagc ctggggcatc ctctcccagt taacctagga ccttaagtag 240  
 cagtgcctc cccctcccc ttcagacaca atgtgcccac cctattaaca gtataaaaac 300  
 cacaatacag atgtgaagaa atactgtctt cccatccctt cactaaaatg ccaattaact 360  
 acgctcccta aaccatgata tacatttttac aataatccgt agaaaacaac agctaccagt 420  
 catgtacttc tgcacagctc acatacatgc acagaagagt gggttcccag tcagaagtga 480  
 gagtgaagac ttagagcatc catg 504

<210> 785  
 <211> 505  
 <212> DNA  
 <213> Rattus norvegicus

<220>  
 <223> Genbank Accession No. AI112086

<400> 785  
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 gaacctgtgt cagcaaagaa ctgattttca tacagacttc tttcgccacc aatgtaacga 120  
 agtaagaaaa taaaaagcac gcctttcatt ctgtaaaaa cttacgcgta ctactaatta 180  
 gaggttaattg ttttttttaa caagccattt tacaagtatt tttttttttg aattttcagt 240  
 ctatgcatcc aaaacgagag caaagaacac aactgtttatc tttgtaaaaa cactccaagc 300  
 ttgtatggca aagccgtgta acagatggat aggatggatc tgtagccttc tgacctctgc 360  
 tggagtatca gggcacccat ataccctaatg gaaatcaaaa ccaaaagaga aaaaaaatgg 420  
 gaaggggatt ttaaaatgac aagaaagact gaaacaaagc taacccaaaa ctcagcagga 480  
 aagaaaaaaa ctgtgtgtgc tacta 505

<210> 786  
 <211> 523

<212> DNA  
<213> Rattus norvegicus

<220>  
<223> Genbank Accession No. AI112107

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ctgatgccca caccaatagg atatattcat gtaacagaat actactctct gaagaaaact 180  
gactcaagta acaacacaga tgcttttcac agcatgctga gtgaaatcac acccaaataa 240  
aaaccatact gactgatttc gtctaataca cagcagacag cagtggctta gtgacgattg 300  
atggatggtc cctactcaag ggacctgagg cgacttggat gatggaaatg ttctctatct 360  
tagttgtgga gatgagccaa caggtgccac ttccgtccaa ttccttaagt gtggtttccc 420  
atgggtggct tcattagaac tcactactgt gcttgaagag gaaacagggc cactaagcct 480  
gcctcgctcc tctgcacctg cacctgcacc cgcagggtc aca 523

<210> 787  
<211> 348  
<212> DNA  
<213> Rattus norvegicus

<220>  
<223> Genbank Accession No. AI112161

<400> 787  
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atcctggggg tggggggaat ctgtctcccc acccggggt cctcagatat aaagttttgg 180  
caggttattg ttattatcta ggtttgcccc accatgtcca ctttctgtag tggctgggtat 240  
cagtacctac ttttctcatt ccagaccagt tcagcaaaca tttctgcccc accccaaatt 300  
gtggggccta aataaagagc aaatagggtc cctccactcc tcgtgccg 348

<210> 788  
<211> 326  
<212> DNA  
<213> Rattus norvegicus

<220>  
<223> Genbank Accession No. AI112194

<400> 788  
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ccagactgag attcctcctg gggatttttt acttctgttc tgtgccacat tcctgggtcc 180  
ttggacatct gtcgtctcc agaatgtacc tgccataaca tagtggcagg aagggggaac 240  
atcataagtg gcttatacga gggatagggt ggaaaaggga catttgtaac agccagataa 300  
tttcaaggaa gggctttccc tcctca 326

<210> 789  
<211> 475  
<212> DNA  
<213> Rattus norvegicus

<220>  
<223> Genbank Accession No. AI112365

<400> 789

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aatctagatt ggcttgatct tgaagtgtaa tccaataagg ctgaagacta aacacttcag 180
gtcctggaca agataataaa acactcgcaa gccttctgga tccttggact ggttgacatc 240
aataagggaa ccaatttttg atggttgtaaa agaaatgtgc tcactctcaa tgacaatttc 300
gagttcctgc cggccactc gatcaggagg gggccacaga gcgtcatctt ctttggtgat 360
ctcactgtcg tcaataatcc tctttaattc ttccatcaca ctcttatgta cataagcctc 420
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<210> 790

<211> 460

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. AI112511

<220>

<221> unsure

<222> (1) .. (460)

<223> n = a or c or g or t

<400> 790

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attaacatca aaacaatcat ctatttagat atgcttttct gtaaaaagga aatatattag 180
cagcatttat attttccgca atcacacagc ctacagacat gcagactaac tctgtatcta 240
tttgagtgta tgtagtgtt tgccccgcat ttcgaacacc aaaaccaccc tggcagctgg 300
gggttggttt tattttggtt ttataaaata actgaaaaat aaaaaaggca ttaatttcta 360
caccagttag aaaaacaagt ttttgactt acctaacatt tgattgtcta aaaaacattt 420
cagtttttaa tctttcaaca naagaaagat aaaaatgaca 460

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<210> 791

<211> 476

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. AI112571

<400> 791

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ttgaatgcaa gctaaattgc aacaatgtat tgattcgaca tttaaataca ggacttgcaa 240
taaaataatc attgagatat atgcttctac ctcttaccga catttttagaa actaccctct 300
acacgtagat ccagttgtaa cacttgacag tagcattatg gagcatggta taactttggt 360
acacactgca gatatggata gtgatttccg taaatgacag tccttcacca gatgaagctc 420
tacacagacc agccacctga tcccacattg ttcccaaca ctggttgtcc ccgagt 476

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<210> 792

<211> 372

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. AI112926

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 <221> unsure  
 <222> (1) .. (372)  
 <223> n = a or c or g or t

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 ttcactctgct taagattcct ctgtgagagc aaaaaagagt gaagagccaa agaatttgac 180  
 ggctagaagt taggaattct ggtggctggt tcatagatca caaagtgtcg ggagaaaagac 240  
 actattttcct atcagcaaac tgtgagggtg tgactcgaca cagacatatg aactcacttc 300  
 aaatgctttc gtctgtgtgg accattatac caatgtggta tgacanacac acacacacct 360  
 aatangagct aa 372

<210> 793  
 <211> 539  
 <212> DNA  
 <213> Rattus norvegicus

<220>  
 <223> Genbank Accession No. AI112964

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 tcaaccattg acctaggtag gtactgagta ttttttttagg taaatcagcc ataattcctat 180  
 caaatgaaaa actcctcctt cctacctatc tttttatttc ctttgtgcat ttactaaaat 240  
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 tgcttttagta tccttaatta gtagactgac tttttctgac ttgatttccg atccagttgg 480  
 aaagaactaa gcataggact gcatacttga gctctccccg aggagagaat ttctgactg 539

<210> 794  
 <211> 493  
 <212> DNA  
 <213> Rattus norvegicus

<220>  
 <223> Genbank Accession No. AI112969

<400> 794  
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 tagcaagttt agaccacgag ggcgttggtc ctggttaacaa catttgaaaa ctgtacactt 180  
 gcgaagaaca gcatgttcaa acattagtgt gtctgcatca gtagagcttt tacatgtaac 240  
 aaacatgctc tttccatgta tgacaaattt aaaaaatatg cattgcttgg caacatgaac 300  
 taggcaaaaa tatttctttg ttcactgact ttatacaggg aaacaggaca aaagtcatgc 360  
 atgtacaata cagatgcctg cacagggcat gcaacaaaag gacgcctttt gaaagtccgc 420  
 ttgcgttagg cataaatatg tgaggggttat atattaataa gggaggaagt cttctgttcg 480  
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<210> 795  
 <211> 461  
 <212> DNA  
 <213> Rattus norvegicus

<220>

09917800-072101

<223> Genbank Accession No. AI113008

<400> 795

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gtgtgctcac cttgtcttca ttgtggagga agcctttgtc ttgataagag gctttgatgg 360
gcaccgagta atggatcctg aagggtgtgtg tctggaaagg tccaacagca cgctcaaagc 420
ggcgctcct gacctgtgt gacctgcccc tacactgagt a 461
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<210> 796

<211> 492

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI113046

<220>

<221> unsure

<222> (1) .. (492)

<223> n = a or c or g or t

<400> 796

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tactttttga cccatccccc atccataaat cccactgaaa ccaatacctt ttggtattct 180
aaaattcctt ccattcctga ttttcatcag tttttattga gtactagatg tgggaagcatg 240
aaaatgtaaa aaaatgatga ctgaattaat gagggaatgg tgatgggtag atatgaaaaa 300
aatggtttat tgatcaaata tctggaaata caaatacact gtttttcttg ggaagtcctg 360
aggtcagggc tctggcgaaa cacttcttat tctactgcgtc ctcaggcatt tccataatct 420
gtgctgcang gacgctgta ttttgcaact gcaaactcat ctttctcata gtaatcgtag 480
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<210> 797

<211> 346

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI113055

<400> 797

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taccatga ttattcaaac aggaacaac ctgcaatttc cctggaaaaa ttcccgtggtg 180
ggtttttaac tacttcatta caattatgaa aaataaacag gccacctgtt taaaaaaata 240
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<210> 798

<211> 424

<212> DNA

<213> Rattus norvegicus

<220>



<223> Genbank Accession No. AI136478

<400> 798

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cttcaacaag agcaagtgtc agaactgctt caagccccgc gaggcgcacg tgctcaacga 180
cgaggacctg acgcaggcaa aacccattta tgggtggctgg ctgctcctgg ctccagatgg 240
caccgacttt gacaaccagc tacaccggtc acggaaatgg cagcgacgat tcttcacatc 300
ttatgagcat ggctctctgc gatatgccct ggatgagatg gccagacctg tgccctcagg 360
atccagcaga gacttggggg gaagagaagt gtcaacatac acaactgcac tcagcctcgt 420
gccg                                         424

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<210> 799

<211> 380

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI136514

<400> 799

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acttgatgaa gtacacagtg ggcttggctt caacctgggt tatgacctg ccaactctct 180
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<210> 800

<211> 352

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI136630

<400> 800

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tgtagccggt gagcacgaag aaggccaggg tggaaactct caccaagagc tgggtacagc 300
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<210> 801

<211> 282

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI136702

<400> 801

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gtgagagaac actgccttcc cacatcaaac cccatgacag acatacagtg actcagtcac 240

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282

<210> 802

<211> 435

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI136714

<400> 802

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catgaattta ctgtacaatg acagtgtaca tggctagggt aagtaacgtc accgacttca 180  
cagtcagctg taaagagtgg catttcactg gatgcctcga gagacagttc tgttgaggta 240  
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ttaaactgaa acaagtctcc agtcagcacc cagtcaaaca cagtgttttg aactttgggt 360  
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cacagcctcg tgccg 435

<210> 803

<211> 475

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI137049

<400> 803

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atcatcagca agagagtctt ctttcgcttg ttgtttctgt acctccattt catgtttcaa 240  
ccactcttct aattcagtat tctttcgagc atggtgacct attaaatctg atcctccaat 300  
aatgtgtgga agctttcctg ctccaggaca cgtagccttc ttgaatttct tgaaattctt 360  
cagttcacca cgaccattta gtgggcacag atttctggaa gagttattat ggacaaccag 420  
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<210> 804

<211> 446

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI137211

<220>

<221> unsure

<222> (1) .. (446)

<223> n = a or c or g or t

<400> 804

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aagaacgtcg tcggcttttc cttcctaagt ctcatacatg agtgggatga agatatagga 180  
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gagaatggat actggttcag gagggcagct gaacagcaag agccacagag agagagatta 420  
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<210> 805  
<211> 399  
<212> DNA  
<213> Rattus norvegicus

<220>  
<223> Genbank Accession No. AI137345

<400> 805  
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tgaaaccca cttccactga tatgggagtc agcttctca 399

<210> 806  
<211> 392  
<212> DNA  
<213> Rattus norvegicus

<220>  
<223> Genbank Accession No. AI137356

<400> 806  
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accaaacca aatctttcac agaacagcaa atactcttaa tctctgagcc tcttcatgtt 180  
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acgtggaccc accatattgt gctgcacgag gtagcgaatg gtctcccgga tgccagaact 300  
gatgagggtg gacgtatagc ccaagaaaat ggtgcagcct gtgagtgggc ggcgggtctg 360  
agtcaggctt tcgtgatgat cttcatctac tg 392

<210> 807  
<211> 540  
<212> DNA  
<213> Rattus norvegicus

<220>  
<223> Genbank Accession No. AI137406

<220>  
<221> unsure  
<222> (1) .. (540)  
<223> n = a or c or g or t

<400> 807  
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gtcccttccc aagttggaca cacctggata cattaaatgt tttatttttg tgacagacaa 180  
ttccttttat tttagttaga tgttttgaat gcttacagta aatctgcca ttccgggagg 240  
tcgcagacct cctggcctcc ccccaagtct atgatctcat tttcacagat aaacacccac 300  
ttctcagacc agctacccaa agcatgcatg ttctcgagtc ctttgcaaac cggttatttt 360  
gtctacataa cctcctcata tcccttctc acattcttcg taggcagatg ctggagctgt 420

tgctctaacc tectgagata tgggtggcccg ctggggggagt ctgtttggct tcatttgacc 480  
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<210> 808  
 <211> 519  
 <212> DNA  
 <213> Rattus norvegicus

<220>  
 <223> Genbank Accession No. AI137420

<220>  
 <221> unsure  
 <222> (1)..(519)  
 <223> n = a or c or g or t

<400> 808  
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 ctggggacag acatggcacc atggccacag tggctggagc tcagctgtcc tcatcatcat 180  
 catcggcaga ctcagaggcc aactgcatcc tctcatggtc ctgatgtca ttcccaggcc 240  
 tggcggggtc agagctgtcc tgtgggctgt catgcagctc ttctgaggag ccaccctgg 300  
 ggccatcctc caagtccctgc ncgtcttctc gtgctccatc ttctgtgttc tctcccttct 360  
 gggatgcggc ttcaccattc acaggtgctg accgatcagt gctgggctca tcctccgcc 420  
 gctctctggg agcctgtcc caggctgttc ctccacttct cgcacggcc cggtcttctc 480  
 ggctttgatc tccgctcgg gggttggggg gtggcttct 519

<210> 809  
 <211> 416  
 <212> DNA  
 <213> Rattus norvegicus

<220>  
 <223> Genbank Accession No. AI137468

<220>  
 <221> unsure  
 <222> (1)..(416)  
 <223> n = a or c or g or t

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 gcctgggggc cagcacagga acagtgagag gtggaagagt tggggcaaat ggagaggagc 180  
 ctgaggggaga gtcagggaa ancattcctg gctgaggga tggggaatgg cagatgctgg 240  
 gaatctgcat tctgacatgg gaccaaattg cttcagtggc aagcggggta cccttggccc 300  
 gcacccagc tgccatcctc acaaggtcnc cagctctgcc acgtccagca gtcgctgtcn 360  
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<210> 810  
 <211> 432  
 <212> DNA  
 <213> Rattus norvegicus

<220>  
 <223> Genbank Accession No. AI137488

<400> 810  
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 agggtaaaat aacccggaga ctttcttgct gttgagaagg tcctgtctcc ttttcagggt 180  
 gatgaagccc accagacatc acaaacaact gcaacagggt caccggcagg cagcacaggc 240  
 aatgcctcat attcagatct tcacagttgg gcatagtatc ttgtacactc tggtgaaatg 300  
 gttctcacag caggagcatc acagccagac tggacattct ctcaaagggg tacgagttgc 360  
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 tgcctcgtgc cg 432

<210> 811  
 <211> 490  
 <212> DNA  
 <213> Rattus norvegicus

<220>  
 <223> Genbank Accession No. AI137506

<220>  
 <221> unsure  
 <222> (1) .. (490)  
 <223> n = a or c or g or t

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 ggggttgacta ctttccttag gaagagcagg ctctgggtgg tcacctccca naggcagaagc 180  
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 gagagcaggc canaggcagc tgcggcctca gttcccttct cgttcattgc cagcagggcc 300  
 ttgtgcgata ccctggagac agttttgttg agctgcccc taattcctga taggtcggct 360  
 tccacgtcaa agaggctgct gagggcaacg aggggcagga tctcttccag gttgtagggt 420  
 gcagaaactg aaaaccgtgg caggtgcaaa tccaacagac tccacgtntg agtcattctgc 480  
 aggtgcttca 490

<210> 812  
 <211> 522  
 <212> DNA  
 <213> Rattus norvegicus

<220>  
 <223> Genbank Accession No. AI137572

<220>  
 <221> unsure  
 <222> (1) .. (522)  
 <223> n = a or c or g or t

<400> 812  
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 gtgagttact gtaacctccc ttacaatcct ggttcttcac aacaagtcgg gcagtggttt 180  
 tccaaaccgg accgcgaagc ttctcatggt tcatcagggt gttccattaa acatgcacgg 240  
 caaaaaggcc gttttctcgg cattaaaaac agcaaaaggc agggagtggg gaggtgtatg 300  
 tggtcttana agtcaagaga ggtgtcacgc cccgagggga ggagaacgtg agtctgtgct 360  
 ctcttttact ttgggttggt gaatcccagc atacattgtt cagccagccg gtgccaccgg 420  
 atgcccgga cctccttggt gagggagtgt ctgacctctc accatgcac gagaaaattc 480  
 cggtgtctct taagacatct cagcttccat ttggatgagt tt 522

<210> 813  
 <211> 415  
 <212> DNA  
 <213> Rattus norvegicus

<220>  
 <223> Genbank Accession No. AI137586

<220>  
 <221> unsure  
 <222> (1) .. (415)  
 <223> n = a or c or g or t

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 gagttgagct atgcattcag tccacaatcc tccagaagtc tgtacttggc gaactacatt 180  
 ggccaggcgt ttggcacagg ggtcttcatg tttgatggcc tcatgcattt ctcttctgc 240  
 aattatactg aatattttcg gtagattggg attatttggg ccaagaacaa ttggatgatt 300  
 actttcaatc aggtcacaca ggtaactgaa ggtctggaca gcttcttctt tatcttcatg 360  
 tanggggagc cagcacagcc agtgtggtaa gacctctcc acattcacgc agtca 415

<210> 814  
 <211> 607  
 <212> DNA  
 <213> Rattus norvegicus

<220>  
 <223> Genbank Accession No. AI137761

<400> 814  
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 tattgcaaca gtactttggc ctatggagtt tgataggatt attgcatca gtcttatagt 180  
 attgtagact gtgtgtcttc tatgtctagt aataaaaaata ttcctctgac ctccagtact 240  
 caccacacac acatattttct accctatgtt gagcactgcc cttttagggt gtactaaatg 300  
 agagaaaaag tttttgctcc tgggttttcc aagagtatac agagatagca gtcacttcca 360  
 cagttaggta caatatttaa ctttgagttg aaaaataaaa cagtatccta tttatgcctt 420  
 ttctctagga gtaaaaagac acacacaatt acaaacataa aatgaatcaa agttctattt 480  
 tattgacagg agtccaaatg agtataaacc tgcctccttt gtatgctgtt tactgccttt 540  
 aaaaggctgc tgacagagtc aggtagatta aaagctacga atgtattcag cttttatagt 600  
 gaacctt 607

<210> 815  
 <211> 384  
 <212> DNA  
 <213> Rattus norvegicus

<220>  
 <223> Genbank Accession No. AI137856

<220>  
 <221> unsure  
 <222> (1) .. (384)  
 <223> n = a or c or g or t

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 tcacacaggt ggtcgatggg tggccgcagt gatgggtant cttggaggat ggctaggatg 240  
 tgccctccggg cttccaccac ccagctcagg tacagctcct tgccctcgcc tgaggatgac 300  
 gccatcttgt gcaggtgctc ctgctccgag ggctctgagg cgtactgtgc cagttcgtag 360  
 agcacattgg tgcgtggcgg gtta 384

<210> 816

<211> 425

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI137988

<400> 816

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 aaatctctaa ggggccccaa cacaaatgct gaggtcttaa tgggaatttac acattgcttt 180  
 gtccctagtt cataaagggt aactgaacac agcacctgta agtgacagca gttgtaacca 240  
 gaagaagaat ctggactcgg actttttatt ttatatggaa agaataataa ggtggggccaa 300  
 atgagcctac tcacaaagaa agaagttacc ttggccttat ccctcacaga cagctaaggg 360  
 aagcaatgtc tcttggtcga caaagtctga taataaaaaga tattaatatg tgggtgcctcg 420  
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<210> 817

<211> 401

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI138034

<400> 817

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 aagacagttt attataaatt tggactccta cagttctggg gtggcgccct gacatttaca 180  
 gtatttctta ccattttatc ttcactccaa acttgctaaa caaagagttc ctctccgcac 240  
 cctcgaggct tcgctttaag gaaatacttc acgaccacac gaaaccaca cacacagaac 300  
 atttgttttt ttttttttaa aaatatttac agaagtctgt ccagccattt ggatttttgt 360  
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<210> 818

<211> 511

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI144585

<400> 818

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 ctagagtctg taaaattcta aatcttgctg gctgtggcac agaaccagta gcttcccact 180  
 ttttcccttc tcccagggt acatggggaa agagggcaca aactgacaag acttgatcac 240  
 ctccaaatga caaaattgca aaatcccaaa ctcccagcac ctgaaactca ggatattggag 300  
 acctccagc tcagatatat atttttaagt ttctgctttg ccacaactgt ttgtcaccaa 360  
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<400> 821  
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 tagcagcaga cacaacata aaatccagtt gaaagggtcaa ggggtcaaggt ttctagactc 180  
 cggtgacaac agtcagggtcc tgattatatg gactaatgac ggggaacggg aacacagaga 240  
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 ccagatggcg tccgcaagca caccgtctcc aaagctcctc ccagccgaaa gagggcctgg 420  
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<210> 822  
 <211> 588  
 <212> DNA  
 <213> Rattus norvegicus

<220>  
 <223> Genbank Accession No. AI144797

<220>  
 <221> unsure  
 <222> (1) .. (588)  
 <223> n = a or c or g or t

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 ataaaggtaa gagtaataat ttatcaaacg tctctaattg ttacctcccc tgtgcccaca 240  
 tctctttgca caggatatctc aaccacagac agtgcaatga aacctgtcgt tactgtacac 300  
 agagccacgc agtgggctaatt tttactctta aatcattcag caaatgagat catctattaa 360  
 aaaaaaaaaat acctcgcccc cctttaacat catttgaaat tacagaataa atgctgccac 420  
 tactagaaaa ggaatgatac gacctggaag aagatcagat tagagggttac catttcctct 480  
 cctccctcca tctactacggc aagggtcaagt acattcacga aagccgtcct cactcccggt 540  
 acccagacgc atctgtaaga caggggcgga caccaggggc tgcacagc 588

<210> 823  
 <211> 488  
 <212> DNA  
 <213> Rattus norvegicus

<220>  
 <223> Genbank Accession No. AI144832

<220>  
 <221> unsure  
 <222> (1) .. (488)  
 <223> n = a or c or g or t

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 catcctctgg acgggcttta ttcccagtat atcgaagcct ttggccatga cagcagetac 180  
 ggcttcacac aggagcatcc gccacatggt caccttcagc actttcccag tctgccgatc 240  
 ttttccaca cagtagcagc tgatcatagaa ctctgtgaaa gtggttgcta gctcataaat 300  
 gtaatcacac agagtgtgga gaaacaggtc atctaagatc ttctgttaga tttcggggaa 360  
 ccgtaaaatg caccgtccca gtttccatc cttctcgtgg tccaaaatga tcttggtttc 420  
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tctggtga

488

<210> 824

<211> 512

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI144936

<220>

<221> unsure

<222> (1) .. (512)

<223> n = a or c or g or t

<400> 824

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acaaagtaga tgtaaaaaac tgcttaagtg aaaaatgtaa tatcgagtt ccattttata 180
agctgaaaaa tgattttatc aacatttgca taaaatctgc actttatata ctgcatgtta 240
ttaaaaaatt ccaccactaa attatgactt ttgcaaattt aggcttacat ttatactggt 300
gctggtgtat atgtagtaga tatggaatgg atattttttt gtttaatagg caacatcctt 360
aaacaataga caacaatttg gaaaattaca gacattttga cagctcaaaa attattattc 420
acatcatagc aatacgggtcc tactgttaga tttcttgcca tcttctgaca taagagtagt 480
taanatatag tgctaggaat gctggatggc tc 512
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<210> 825

<211> 563

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI145081

<220>

<221> unsure

<222> (1) .. (563)

<223> n = a or c or g or t

<400> 825

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cagattaaaa aaaaaaaaaa aaaaaaatcc aaaactgggc ttaggctctt tgcatttaaa 360
caggtaagat gcaagctgct taaaaactat ggcatattga aaatataacc tctcctgtat 420
atgctgatat aattttaaat ttaaagggtga aaacatacat ttactaacia aacacatccc 480
tatagaaaat gtttatatag tggaatactg cctttcagac tccatttgca tcagtaacia 540
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<210> 826

<211> 443

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI145095

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 cccagaatag aacactctgt catacattaa catagagcct tcaaaaggta tacacaaggc 240  
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 gcaagggcca tgcagacccc atctcaaaaca tcccagtagt aatactctgt atttgcttct 360  
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 actggccatg catcttctgct cca 443

<210> 827

<211> 556

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI145385

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 ctcttgccat ctgagactcg atggcaacga atgctgtgta taaacaactc cattgagtaa 180  
 cccagtgttc cctttctgta cagagaagaa ctgaattcac actgttaaaa gccttttctg 240  
 gcacaactga gaagcagggc tcatcttttag gagtaactcc taacagctag taaagcaatg 300  
 tgggacttta cgttacttca catcctgtcc atttcagagt ggggaattcag gaaggccctc 360  
 ctaccttccc agtcactgtc ctctccagac ttctcagacc gtacgtgagc cacacaccat 420  
 gaagctactc atgacagtgg cagcagacaa cattctctga actgacaatc atgatggctg 480  
 gatcatccta gactttgttg atgctaaagg atttctttaga gaaaaccctg attcagaatg 540  
 ctgtgagcag ctgtca 556

<210> 828

<211> 567

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI145556

<220>

<221> unsure

<222> (1)..(567)

<223> n = a or c or g or t

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 agagagagag ttctggatga tatctttccc ctctagttca atgtgctaag actgagacag 180  
 aagcagaatt tgtttctgtc aagggcaggg agggcagggg gggcagggag ggcaaagata 240  
 ggacctcact aggtaaccct ggctaacttc aaactcagag atocagcctg cactggcct 300  
 accaggttct aggagtagag gagagcgcca ccacacccag tctgtttttt gagacaaagt 360  
 ctactatgta agttcagatt ggcctttaac tcaaaaatct tcctatagcc acctccaaag 420  
 taccaggatt aaaggcatgg gccaccatgt tttggatgac cttgagctcc tgatcttctc 480  
 gcctgnggtc tgaactcaga gctttgtagt gctaagccat aactccaagt ctataagcct 540  
 tcatccttga ntcactgtgt atattaa 567

<210> 829

<211> 439

<212> DNA  
 <213> *Rattus norvegicus*  
 <220>  
 <223> Genbank Accession No. AI145569

<400> 829  
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 aaggactcta cgcactgtc tctgaagcac ataaccacac taaatgtaca aagagccatc 180  
 cgctggcccc acatagccaa ctccaatcag caagacgtcg attaggggtcc atattcccag 240  
 accaccaaag ctgaagagct tgccgaggcc ttcacgccac tggcccagggt agaagcgatc 300  
 cgctccaaag cccccaaggg tgatgctcag agccagagcc gtcgaccact tgtagcctcc 360  
 agtccagttg cagtacagca gtttagggaa agtccggta cccaagcaat gaatgtggtc 420  
 gcgcacagtg cagttggca 439

<210> 830  
 <211> 480  
 <212> DNA  
 <213> *Rattus norvegicus*

<220>  
 <223> Genbank Accession No. AI145870

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 ctgcagcaat agctcactta acaaaatttt atctgacttt ggggtggagga actttcccaa 180  
 gtaaaaatca actggagtgc tctgtacaaa gctttcctaa tgtctaactc cattaatgaa 240  
 ttacttgctt ttgcagcttt taagtcttga gctaagcctt cagaatgatt tattgaaaag 300  
 tcttattcag ttcagtttta gagaagaaaa ctacaacttc tcaaagttta gtttaacacg 360  
 gtctcctctt ggcaagcatt agatatcttt agcttgactg ttcctatttc cccctctgtc 420  
 ccagctcttt tagatcacgt tagttatttt taaggatcca tcttttttga catgtctagc 480

<210> 831  
 <211> 421  
 <212> DNA  
 <213> *Rattus norvegicus*

<220>  
 <223> Genbank Accession No. AI145931

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 gagcttggtt ttcaggcagt tgagtgcctg acatgggtgc tgggaactga acttgggtct 180  
 ttggcaagag cagtttaggc tcttgaccac tgagctggct ccgcagcctc ccacactggc 240  
 ctttgaagaa atactgatct aagagagcgt gggtccactc agtagctctt ggggtctcagt 300  
 ccaggtctat tcccaggagg cctagtggat cctgcggtgc gtgtagtcca gaaccatgct 360  
 ggccgcacca agcaggggccg ggtcaaccaa gtctgaaacc actacatcca catcctgcac 420  
 g 421

<210> 832  
 <211> 394  
 <212> DNA  
 <213> *Rattus norvegicus*

<220>  
<223> Genbank Accession No. AI146177

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ggatatcctg aggcactcgt gttgagcctc actcacacc gcccaagggtt ggaagcttag 180  
catggacctg cctcccactg gctcgtctcc tcagtgtccc acccttcccc agaccagaga 240  
cttcattaga cagccaaaagt tatgaagtga gacagtggac agacatcttg gttcgggtggc 300  
catctcggca tcttggtctt ttggttctct tactctcaaa ttgctttcca gagatgggaa 360  
gtgcctcctt tgagggaatg tttaaaagta atca 394

<210> 833  
<211> 520  
<212> DNA  
<213> Rattus norvegicus

<220>  
<223> Genbank Accession No. AI146215

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caaacattat gctatagaga tgccaaatga atgaagtttc tttgcctgcc cctgaggagc 120  
tcacattcta gtaaaggaca ctttaaaaaa taaatatac agtacaataa gtgattcaat 180  
agaggttagt tgcaactata atggtgacca aaggaagggc cagggttaatt aatgtcacag 240  
agtctcaaga acgcatggag tttcccagaa gaagcctagg gctctccatg caaatatggt 300  
gtctacgaag gtctggaggg ctacaactct ggactttctg aaaactcttt aacactctta 360  
tcagagcaga gtggcaaaca caagaggagg gtcttagata ccaagcagag actctcacca 420  
aaaagctcct aaaactgcct gtagcaggga tgaggctgaa tgcttctaga aagcccaatt 480  
cggtaatctg ggccaacaga gatgggaaaa tatacacagg 520

<210> 834  
<211> 421  
<212> DNA  
<213> Rattus norvegicus

<220>  
<223> Genbank Accession No. AI146216

<400> 834  
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aatcggttac gaaaacttga ataccttttg cataataata ctacggtctc actctctgct 180  
tttgctaacg actgggtccc tctctcgctc taacctggc cacctcgtca agcctcgact 240  
gccaaagtca cgccgagaat caccaaagga aagaggtgag tgggcatgga aggagggagg 300  
agagagagag agaagggaga ggagaaaagc aggtatcata tacaagcaat ttctacacat 360  
atattacaca ctgggataat gaccgatcat taagatatac ataattcata taaaattttg 420  
a 421

<210> 835  
<211> 456  
<212> DNA  
<213> Rattus norvegicus

<220>  
<223> Genbank Accession No. AI146237

<220>

<221> unsure  
 <222> (1)..(456)  
 <223> n = a or c or g or t

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 ggtgtaaacc accatgccag gctttaactc gaaatctcaa agcctactga gatttagaag 180  
 ctttgccctaa aacatgtttt tttttttttt tttaaacttt ttttccttg gaaactacca 240  
 tggnaataaaa tgattattgt atatcaacaa aattattctc tttttcagtc aaaaataact 300  
 ttcacaaaat acctggctaa cccaatagaa aaatacaagt tacattctat cctgagggtta 360  
 aaagaaaaaa agtttgatcg gggagggtt agtgaccaca gtgtactctg tcagcgtagt 420  
 acttgctgtg gctaatttca atgaaaagga acttct 456

<210> 836  
 <211> 637  
 <212> DNA  
 <213> Rattus norvegicus

<220>  
 <223> Genbank Accession No. AI168953

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 tgatgtaatg tttcatttac ttgattaatt cttttctcta aaagtaatag ttaaaaaattg 180  
 ccaatgggta aattatgaat acaatcgtgt acaaagccaa catagtatgt tttaccattt 240  
 atctctttca agttctgcta ttttaatttc tgaatacaaa ggaaactccc agaaaaataa 300  
 agccaaaaga ggcttaagtt cgacactatt atgtttccaa agtttacctt aaatctacag 360  
 ttaaccagta gatgggtgga gaccagagtc attcctttta taggccagag tgactctggg 420  
 ctcttatgaa cttaaccctg aaaggaggca gatgtaggga cttcagttta gtttggattg 480  
 taagagggga ctctctacct agagaaactt tgaataattt caagacttag aagcaaacaa 540  
 taaaaattta caatacaatt aggatataat tttttaatat aatagacatt gttaattaac 600  
 tatacacata tggttagatt tcggcagtaa ccaagcg 637

<210> 837  
 <211> 448  
 <212> DNA  
 <213> Rattus norvegicus

<220>  
 <223> Genbank Accession No. AI168967

<400> 837  
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 tttagtttgc agtgaagtca actaaggctc aggaagccaa agtgccttgt ctagctacac 180  
 aaccagttag atctgggaac aaaatcttcc tactgcactg aacagaaaat ggggccacac 240  
 ctttgggcta acacaggaag agggccgcatc agaaatacta gcagggcaat tgtctgactg 300  
 gaggaatgac cttcgatca aaagttcaga tactcaattc ttgaaaatcg ggatcccatg 360  
 caaaactggc aatgcattcc aggaaactag acggtcttca gcatacatgg aaaccagagt 420  
 tgtagctcct agtaaccata taacggag 448

<210> 838  
 <211> 534  
 <212> DNA  
 <213> Rattus norvegicus

00827660

<220>

<223> Genbank Accession No. AI168975

<400> 838

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gggtctaaaaa tgggatacag agcacagtga cggtcaccat ggtgctgtca cagcacaagg 180
agctactggg tgctcatttc cttcctgaac attccctgag cctcagtcca cgatgggtcaa 240
cgccctccac aaacctggag cttttggact ctggctactt cctggagggtg aagtcacaca 300
ggccacgccc tgccaccccc aatcatggcc agtcaattgt cttcagtagg cctcagtact 360
gaacactcgt aactgctga cacagctgac cctaccctac ctagtacag ctggaggcat 420
tgtctccatt cttgctgtgc tgctgtgac ctgagaaaga aatggggaaa agaaacttcc 480
actttcccaa gaaagctgga aaaaagagag ggcagattgt ttctgggcag gaac 534
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<210> 839

<211> 255

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI169007

<400> 839

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tcctggtaga atcaagaaga ttttcagtggt ggagatgac tcattggagat tggaaatggt 120
caacttgcca cgagcaactg gaacggactg tctgtaggaa actacagaag agcgggggtg 180
gggggtgggg agtactatgt ctaccagcgc tttccgcttc tagctggact attattatac 240
aggagagaaa tgcct 255
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<210> 840

<211> 474

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI169041

<400> 840

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ccccacagaa ctttatattc catactgtcc tggcccaggg cacaggcacc tctgagttag 60
aataatctag acagaacggc ctttcctcta ggtacatcag tcactttgtg ttttcaaagg 120
cttgtctttg ctgtccttac ccaacacagc tctctttttg aggcacgctt gagttacaag 180
gctgatccca tcttctagt catatgacag ggatggagat cctgggttct ctacccagc 240
acctagctgt gatcattctt tctcctctt accaggcctg aggtcctcc aatgtatacc 300
tgccccccaa ttctcacact ctcagggtgt tttcttagta tcagcagccc ctccacctca 360
ccataaaact ggatccctt tctttttagc gccctcctat ggcttcccat tgctttgagg 420
aacattagat ggggtctgcac catcccactt cacagcacat tctgaccact actg 474
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<210> 841

<211> 522

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI169075

<400> 841

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gtcaaggcat ctgcgtgaga accgatcaga atgcacacat ggcagttgct ccactctttc 120
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tctactcttc tagtcccagg atcctctacc caggggaatgg tgccatccgt gatgggtgag 180
tcttcccact tcaacagaca ttcataaagg cccttttccc tagtgactct aatttttattt 240
caagttgaca attatcatta gcagagcagg ccatgtctct gcctcccccc tcctaacaca 300
tgacaggtaa gaggatgaag gcagaatgta ggggctacag tgcaagcagg aggaagatat 360
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atggactoca cgaatctgct gcttcttgag gaaagagcta aagttcaa at cctctactac 480
aattcattca tttctggggc tgcttgagg tgaacaaaaa tg 522
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<210> 842

<211> 703

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI169156

<400> 842

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catttttttg ataacagtat tgcttttgct agtgtgagaa taaacaggaa agccacgttt 240
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tctctgactc ctctcgttg caccaaaaag ccagaattta ttcaccaatg cagcatgggt 480
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cacatagagg atgttttctg agtgtttgac ttggaaagaa tggatgcttg caagattttg 660
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<210> 843

<211> 556

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI169163

<400> 843

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ctcttggtgt agactgctca ggactgaacc ccaccttgt tgctcatagc ttggcctttg 180
ccatgctact aagccatttt tggactgttt agtgaatgta attattttta ttactcagga 240
acaatcagtt ttctccttgg tcattgtcct ggttgattta ttgtgtcaag gtgacacagg 300
ctagagggtg ctggaaagaa ggactccaga tgagaaaagc ttccatcaga ttgcctatag 360
acaagtctta tatagtattt tcttggttaa tgatggatgt tggaagacct ggatcacttg 420
gggtggtgcc aaccttgggc aggtaggtgg tgctgagttg tataagaaag cagcatgagc 480
aaccatgga gaacaagcct gtaagcagca cttcccatgg cctctgcttc agtttctgcc 540
tggagttcct gactg 556
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<210> 844

<211> 649

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI169166



<400> 844  
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 atctcaaatt ctaaaaactcc ttgtttgaaa cgaacttcag gtaaggtaga taaagacaac 180  
 atcgatgtgc agggcaatgc ggaatcagct tgctctcacc acgacgcctt caggataagg 240  
 tagttacgat ttgcttttagt aaagtttttc ttttcctggt aacaagagca acaagaacaa 300  
 caacacagta ccaagagaca ccgtaaaaca aaggaccac tgagggaagtc actttccgat 360  
 gtcagagccc gccaccttcc ggccctccttg cctcgctgcg cccagtggca ggtgcagtac 420  
 gggctgggct ggccctgcag ccattctcatc gccggctggg ccttgggtca cacttgctcc 480  
 gggaggcccg cttccttgga ggagagcagc ccaactgagcc ccgggctgag tgaaggctgc 540  
 gcttgtagga gtggcttctg tgtttcttcc cacttgtttc cttctggtct tgacttttgc 600  
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<210> 845

<211> 598

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI169171

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 cagtttcaag gattggaacc aaccttaaat ggcaaaaatg ctttctatct gaattttcat 180  
 aaaaatgttt aagtaaaaaa acgaaagtta aggatcaaag gggcaacggt ggcttcagag 240  
 tgaaaagatc attcacggtt cacgtcagac attcaatctt ggctcgagtg taacacagcg 300  
 ggaacaggct cactatcata caaaagggtc actacagcgc gctgtgggca cctgttccaa 360  
 gtccaccgc agcccctaac gcttccaact caattacttc ccagtctggt gggcctgact 420  
 acggaggagc acgtatatct tctctttgat ccagtctatg ttatacggct ggtatgtctg 480  
 tgtatcagct cggtaaacaa gacagctgag atctgccaga tcgtcaatga aatcaaacaa 540  
 ctgactgata tcatatgcga tggaacggct gttgggattc attctcttca catgttct 598

<210> 846

<211> 597

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI169239

<400> 846  
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 gtcttggttt cctacttagt tacaaagggtg aacctacagt tgggtgaaca aatatttaag 180  
 gcataaaata atttctctac tgggtttattc ttgactccac aaaatgcccc attcctatga 240  
 attccttagc tttggaacca actgttttaa tacatggaga aaatgtttta gtaacatggt 300  
 gtgcagggtga ccaaactgta aactgtaaga tctacagttt ttcttactgg ttcttcaaaa 360  
 atgttttccc aagaaagtta gaatgcaa atattgcacg gataaagtca aaagatctaa 420  
 aatgttttat ataagtttaa aacctttgat cattatccta gttttttata aacacaatag 480  
 agaaactata ttatagaatc acacaaacaa aattttacaat caattcttta aaaacatata 540  
 aataagagta cttacttttt taagaaaaag cattttttatg attaaaaatg acattta 597

<210> 847

<211> 652

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI169279

<400> 847

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gaggaagcat ttcagctcc tgtcccaaag tacgtgacca gagagtatgt ctggcttctg 600
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<210> 848

<211> 634

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI169284

<400> 848

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tattagtctc acacacacat atacatgtac acaggaagga aggcaggctt atttacaaga 180
aaacatgtaa aatcaaagtg ggtgtcagga aacattgaaa aacaaacaca tacatgctac 240
aagaggcacc actgagtaca gtgctaggga ggggagtga cagaggcaga cagacagggt 300
cagtcttcac agcatcagtg caatggatcc acaaaccatg ttacagctag ttcaggggtt 360
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aaaagctatg cagaccaaag tcaccgatca gcagtctgct ctcagctgca gccctgcatt 540
tttctgagaa atatcaaggg gaaagtcaaa caccagtaaa cactgtctct gaagtgcaaa 600
gctggagtga ctgaaattca gccaatactt cgaa 634
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<210> 849

<211> 567

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI169302

<400> 849

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gctatgggca tctggggaggc tcccattggg catcaagtgg cgacacagag cagggtgtc 420
tgcacgtgct gagagctggg cacacagagt ggccaggcgg cagggtgtgc cgcagggtc 480
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cctcatgcgg tagaccaggt tgtgcca 567
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<210> 850

<211> 637  
<212> DNA  
<213> Rattus norvegicus

<220>  
<223> Genbank Accession No. AI169317

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gactgcaagt cgtctccttg gggttccact tccactgttt ggaggggctc cacagtcctg 540  
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tctccccatg catgtaactg gacattaact gtatgat 637

<210> 851  
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<212> DNA  
<213> Rattus norvegicus

<220>  
<223> Genbank Accession No. AI169327

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tgccaggtgc acaaactctg attccgtggc aggcaggcaa agtgatcgct ctggtagccc 180  
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caagggatgg ctgaacaggg aaacactgtg cacaccccac agccagcact ataggtcttt 300  
acgaaggcct tttgctgagc agggctcaga ttatgccagg gaaccaggaa gctgcaggca 360  
gtgatgtgca aatttccgtt ccttaaaccg cccgcgatga gaaactcctc gctgcgggtc 420  
tgggacttgt ggacatatcc acagaggctc tccatggctg ggggttaggc gaaccggaaa 480  
cctgtggcat ttcccacagc gtcgaatcct ttgagcatct tagtcatctt gatctcataa 540  
cgctgggtata aggtgggtc gatgatttct ggggaaccca tgaatttagc ccttataacc 600  
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<210> 852  
<211> 625  
<212> DNA  
<213> Rattus norvegicus

<220>  
<223> Genbank Accession No. AI169337

<400> 852  
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atggcctcga aagagttcct tctcaagggt gtgggtgcatg cttttaatcc cagcacctgg 180  
gaggcagagg ctgggtgggt tctgtgagtt caaggccaac ctgggtctaca gagagccttc 240  
taggacagat aaggctatta gagagatgat ctcaaaaaac aaaacggagt tccttctcca 300  
gaagaaagga ggagtgcagg ggaggaggca gagacagtgt acatgtaaaa cctgattcca 360  
caggactttc ccagcatcat ctgaaactat acatcccttg ccttacagcc ggggggtggg 420  
ttctttggtc cagtagacct aggactgggg tgtgcaccac tcagtctacc tccatcttct 480

tattctgcaa agaagccaca aagacttgcc actccgttgg gtaaaagcgc ttatagacat 540  
tgatcttatt ccggatctgt tttgggggtgt cttgatagta attcttctca tcccggggcca 600  
tggccttata gtcctatcca tgatt 625

<210> 853

<211> 491

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI169529

<400> 853

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tgtggtacct ccctttctca tccctagatc tttatttttc tccgaactgg ttctgttcta 180  
ggcagagtgtt tccttgttcc gactctgttg tcattcttgg ctgtggctgc gtctgttgc 240  
gtggccacgc agggaccaca cagcctctgc agaggtggat cagtgtctgt gaccctggag 300  
atctgtttcc actgggcaga aatgacggag agtgaggctg tctttagtac tctatgtgga 360  
aaggatagtc cttatgattt tcagttgagg ggaagggtggc caagcggagg ttcttgtcga 420  
ggctgaaaaa ttcctccata tctttttcag ttaattcaaa atcaaatcc tgaatattct 480  
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<210> 854

<211> 453

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI169557

<400> 854

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gagaatggca aagggttaagc aaggaaagaa aaaaaaaaaat caaagataaa atatccagaa 120  
gaaaggcaca gatagccata tgcaattaca tgtagaataa cagaattttg acagtgaataa 180  
agatgtttta atatttcata aactttagat aagattttcca cttaggcagt tttgaaggat 240  
ttgactagct gcttaaaata tgaaaacaaa gcaaaacgaa accctatatt ttaataagt 300  
atagtaaaac aggacagcca gccaaactaag ggacaaagag aaggcggagg atggaaaaga 360  
ccaccacact cactgcaggc tcgtggctcc ctcaacccca ttcgccttca tcaggctgat 420  
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<210> 855

<211> 580

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI169612

<400> 855

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accaacaaat cccatcaact attgtagagt ttgatgcaaa tttcagtcga gggcctcgtc 180  
ccttggctca tgcccttttcg taaactcttg taaaagtcac gcctttcatg acacattcca 240  
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gcacatgtac caggacccca ccatccaggg ttatgatgct cttcactttc ctgtcatctg 360  
gggtgatttc atcgaattcc acgcccagtt tgaaggaaat ctcggtgttt ttaaaagtac 420  
tctctgaccg gatgacgacc aagtccctt ctacgctgat gatcaagttg ggcttggcca 480

taccggccac tttcctgggtg gcgaagccaa ctcccacttt tttcatgtaa tcatcgaagt 540  
tctcactgga gacgagtttc cagggtcccca caaaggcggtt 580

<210> 856

<211> 583

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI169617

<400> 856

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gctgccggaa gttccaatca agaaggcaag gacagtggca atcaagggtc ctctctatcg 180  
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gaagagtcga atgggtccat ctgccccgga ggagaagacc catggctgtg tgggggtggaa 300  
ggccacatcc agtacacca gatctcgggt caggctgtgt cccttaagca ccttgacggg 360  
caccagcaat gggttctgca gcagggtcatt gtacaccatg ccatggcaaa cgataacgct 420  
gccgtcgtct gagccggatg caaagagtgg gtatcggggg tggaaggcca cagcccgcga 480  
ggccttcttg tgggtgcctca gcactttgta tggcttggtg gaaagatcca gggcaaacca 540  
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<210> 857

<211> 600

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI169619

<400> 857

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attctattac ttgtcaaact aatgactgta tagatagagt taatcttagt gaccattcat 180  
cagtacaata tgttacaaag gtgcagtttg ctttaaagta gaaacagcag aaactttcca 240  
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tacatgttgc caacatggct gcctctctat taagagctcc tggggtttct aagagtaatt 360  
ctgctctaag gaaaggttgc catccattct ggacagagga aaaattatga ttgttccagg 420  
aatggcccaa ttcgtcaatt aaaaagtatt cttgttttat aagcaagact gctaaccctc 480  
tagaaactca cagtgcctcc aaagaaaaca taaaatatgt agtcctatat agccagaatt 540  
gccaaatcag taataaattg cacctttaag actgagtaaa agaaacagaa atgtttacag 600

<210> 858

<211> 682

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI169620

<400> 858

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caggcacgcc ccggaatggg caaagacctg gcaggaaggc actcttgca atgcgcagat 180  
ttaacttctt gatagggggg ccagctggcg cagggaaggc tggcgccatc ttgactgact 240  
tggccttcca cgtggggcgc agtgggaagc agcgccatct aatggtcgcg catgttattg 300



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acataaacat cagtgttcat aaaatattta aaacttttga aaattttatc ccatgggaac 120
atccctggag ggaaaccggc ctttttctcc tggaacactt tatcaaaggc ttcagcttgg 180
gctactgtga agtgattctt ccagtcatta gttgtgcctt ttctcatgaa agtaaaacca 240
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ttctccaggg cgatcttact ccagaaaaaa taagcagaaa caagaacatc tctgggaatt 600
tctgatgaga tatatcacct tggccttgga actgaagaga gacttggaga aa 652

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<210> 862

<211> 490

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI169706

<400> 862

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aagctctgga aaaggaaggc agacaatttt aatactgtat ggttgtttcc cagatacacg 120
taggtggagt gcaaggaagt agggaaactaa catcagctgc ttaattccaa gtgtcagaca 180
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tggtcaagga tgctgagggg ctttggaagg ctctccccta cccaagtact tcctgcagtt 360
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gtgcccacgc gcgcgcgcgc gcgttcacgc acgttttgtt attttcgaaa catgggtctca 480
cttaggcctg 490

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<210> 863

<211> 492

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI169751

<400> 863

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ccatgaggat gctgaggacc agggagctga tggtcaggca tttggcagtg gatgcgtaag 180
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catggtcagg cacagagacc tctctgggca tggtgatcac ggtagttctg acagaagccg 360
atccgtgggg tgccccagt tcagacacct catattcttc cttgattctt tcgtagtttg 420
ggggttgtcc ccagtgga gcgttcacga aggcttgaga agtgtggttc atggtaccga 480
gcaaaagcag ca 492

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<210> 864

<211> 494

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI169779

<400> 864

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atttaactca gtggtagagc acttgccctag caagcgcaag gctctgggtt cgggtcccccag 180
ctccaaaaaa aaaaaaaaaa tatatatata tatatatata tatatatata tatatatata 240
tatatacatt tgacttaccg gggataccag aatatgccac atcatgaagt cacctatcac 300
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acagtccctt tcccctttgt ccatccttgc cccattctct attttattga gttataaatg 420
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<210> 865

<211> 557

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI169947

<400> 865

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cataattgta cctgcaactt ttagagacaa aagtgattaa cctggcactg acatccctct 480
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cttaatagga aaagaac

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<210> 866

<211> 502

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI170007

<400> 866

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tgccaatcac caaaccagct aacctcaacc aatcagatct ctggatgtgt ctttttgatc 180
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<210> 867

<211> 520

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI170038

<400> 867



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tgtctttaca tattaagggc tagatatgat gaacctggaa atgacatcat acttaatgaa 240
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caggtaagga taaccatgta ttaagatgat gttaccacag tgaaagcccc tcctttgcat 420
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<210> 868

<211> 594

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI170260

<400> 868

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tgccctggaaa gggctcaaagg gtcacgaggg acaaatcact gtgatgtgga accaaaatag 180
atcgtaagtgt tcattgacat ggtccaggag agatagacat ctgtatcagt cttccttaca 240
caatcatcat gaaaattgaa caataaagtt cttaacgctg tacaaaaaaa ctgtcatggg 300
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caaatgaaaa cattatatat agcaacaatg tcaagtcag gaaagaaaat cacttctgta 480
tttaaggatg gcagagatac acaatgaact ctgcctgttt gtaatgagat gaaaaaaagc 540
acaccagata gaacatgcag aatgtttccc caaacttaat gagaaatccc aaag 594

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<210> 869

<211> 635

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI170313

<400> 869

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tttaaatact tcatttttctt attattttcat aacacctgta aaaaacaacaa aaccagacaa 180
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<210> 870

<211> 542

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI170327

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tatacaaacy tgggttatgc tcaatcactg caactccagc tactgtacac aggaatgaga 240  
aggttataga aaagtgccac agcaacagtg cccaagaaa ggaaagaggg cacctttaa 300  
aaaatggata aaatcaggcc aagggaactc agaggggaatg gaacatacag gaaatgacaa 360  
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ttgtctcatg atatttgtac actgctcata aggttcaaaa tcgtatcctc acacacagat 480  
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<210> 871

<211> 638

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI170385

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cacatcggtg acacaggaga tcgggtggac aaaagaagcc atccgggaca ctctagacac 180  
tgtaatatct aatagcgttg tcaataaaac gagaacccaaa aaaaaaaaaa agtttcagca 240  
atgtttacag tagacataaa tcttatacaa gtcaaaaagc tttttttgtt gttgttgttg 300  
ttcttcagat catagagcat aaaatggaaa aatgtatatg taggtgatat ctaactactg 360  
tacaattgtc actagtaaag tcgcttatat gtaccacagt gtaaaaaaaa aaaacaaaaa 420  
acaaacaaac aaacaaaaaa ccccaaaaac ccaacaatac tgaaacaaat gaaaatcttg 480  
aaaatcgctt gatgaaaaat aaaataacca gtggctttga acggttcccc ctggccatcg 540  
gcgctgcaga agatgaaaat cttcccatca gaacagatgg cagaaccgag cccaccaaac 600  
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<210> 872

<211> 673

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI170394

<400> 872  
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gctgtgcctt gttttgcaga cttagtaatt cttaaagaat ttacaaaatg aagccagtat 180  
gtttagaaat gtgattgtct tcaatgaaac attaaaatgc accccaaacc cataaagcat 240  
acaaagggtt aggagaacat tttattgttc aagaagcagg tttgatggag aggttatata 300  
tcaaccccct tggctgggca gttggtaggg cagagttcaa attcagtcac tcatttctct 360  
cataaattac tcaactgaaa aagaatgagt aatttactcc cattcccaga gattgagaca 420  
cttgaggctc ttcagggtgg cctactgtgt gcacaggccc ttgattgtaa atattgaaga 480  
gagaacacat cgtctttcat agaagatagc tcaactgaaga tgtgctgtga tgaatagata 540  
cataacttct aagacagcag tggaggaatt ttcattgtgt agagaattaa attctcagag 600  
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<210> 873

<211> 608

00991800-07101

<400> 873						
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gacacgtggc	aagtgtaaact	cagacaataa	cttaatccag	cagaagaaca	aaaacatcag	180
tagtactgag	tgaatatatc	tctctcatat	atatatatat	atatatatatt	gtatgtatat	240
atatagcttt	gcacaatcag	ggagcaaggc	acataatgaa	atgagtacat	ttatgcagaa	300
gaaaataata	gcaacaaggc	tgaaagaaaa	ccacaacttc	atccttatca	agctgtgcat	360
aatcctctga	ataatgtcct	ctttcaggta	catgctttta	aaaagtatat	ttctacatta	420
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ctttaaaaga	aacagaagag	gacaacccca	gttaaagata	ctgtgcaatt	ctctttgaaa	540
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ctcaggaa						608

<220>  
<223> Genbank Accession No. AI170447

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acacagagaa	catgggagtg	aaacaatcct	atttacacag	atgtagagac	agtagagcaa	180
ggaaaggcac	ccccaaact	tcacattcac	caaccagggc	caggcatcct	gcctgtgggg	240
caaagctgtg	gggtcccat	acctgcaaac	acagggcaga	gcaaccctct	ttgccttctc	300
aatgctaccc	aagtgtcaaa	tcaatggtgc	tggacctgac	ttcttaaaaca	ccaagggtttt	360
ctggcaggag	atgaaaagaa	aactcgacaa	aagaggatct	atgggacatg	aagtaataac	420
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<210> 875
<211> 500
<212> DNA
<213> Rattus norvegicus
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<220>  
<223> Genbank Accession No. AI170617

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312

<212> DNA  
<213> Rattus norvegicus

<220>  
<223> Genbank Accession No. AI170673

<400> 876  
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ttctttatga ctcaggagcc aagaaaccac ctctcttttg ctgctgctgc tgctgctgct 180  
gttagttctt tgccgacatc ttatctagca ggggtgacct tcagaatgct gaaccaatcc 240  
tcccacccat tcccaggcca atccttatgt gaacgcctac cgaagtctac tcccggttct 300  
ctacaaaggt gagcagtcca ggcagcaacc ttctgtgccc ttaccccacc acctttcctt 360  
gggtctaacca ctaccacag cctactatct catatcagac atagttaact actttttatt 420  
tcattgggga aaaaaaagtc tgcataaaga accgaactgt gggtcccttg aggaaaatgt 480  
tggtgtcggg tgtggtggca cagcctctt taatcacatc tgataagtat gcacgcaccg 540  
tggtgtcgtg gttggtcaag tctacatacg gagttgcaag gaaaaaaaac gaaccttcaa 600  
aaacatttac cactgcttga gtgaaacctg a 631

<210> 877  
<211> 671  
<212> DNA  
<213> Rattus norvegicus .

<220>  
<223> Genbank Accession No. AI170679

<220>  
<221> unsure  
<222> (1) .. (671)  
<223> n = a or c or g or t

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gaggacctaa tttctaggct tttcatccaa gaaggaaagt attgctttgt ttaggctttc 180  
cttagactaa aagctcattg cagaaaaacta ctttaaaaaat caatagtgcga gactacaaca 240  
tagtaaataa agtacctgct tgctttataa tctgaggaca ttttattgta aaactcttta 300  
gcccataatt agtagaaagt gtagctgaca gtgctcattt cagtgggtcca ggatccgaag 360  
gttcccagat acaatcttgt tctctaacac tgctcctggg gggatgtcaa ttctgtcacc 420  
atgatttgca atgatgataa ctgttccctt taatgaaaca ttttttccaa atgttacatc 480  
tctgaaacc gtgaggtggt ccagttccaa catatcgggt atactttcaa accttcttag 540  
ataatcttga accttggtta aagaactgcc taatttaacc aaagggtactg tangaaattc 600  
acgcttttca ctcatggtca aagatcctgc gttaaggctg tanagggttg acatcacaag 660  
taagagatct g 671

<210> 878  
<211> 450  
<212> DNA  
<213> Rattus norvegicus

<220>  
<223> Genbank Accession No. AI170696

<400> 878  
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tcatgaggtg cttggtctcc taccaccagc atcacggggc acttgagggt catctcacca 180

cctcgcctcaa agttcagggtc tcggcggttg ttgtaactgt tccaatacag ttcgatgttc 240  
 tccagggttg gcgcgtgtgt gatgagactt ctatacttct gtatcaattc agaatttcca 300  
 gaaagctctt cctgggtgaa aagggtgcca agaatcatct ccggaatgga agacgtaagg 360  
 ccggttaact tgtgggctgc ccaatccatc cagcccttgg cgttgggac aatgttgatg 420  
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<210> 879

<211> 440

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI170709

<400> 879

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 tacactgttg ctaaaacttg tatcttcaac ctttgaaaaa gccacattc tatcacagt 180  
 atgtatggtt aaacacttg atcaagtcac aaccagtttt attgcaaaag gaccctgtac 240  
 acatttatca attctagtag cttaatagct acccaacaag tcattaacat acagaaacat 300  
 gcatcatgag aagcaagaag tatcacccat cccttctgca tattagcaac ttgtcactcc 360  
 tgagccacag tgctcacatc actgaggtct gtgaacagtc actctttcca ttcacctga 420  
 gtgaaagatg gaatgactta 440

<210> 880

<211> 712

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI170751

<400> 880

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 ttaatacaat gtatatgaaa taatctaaaa tttaacaagac aggaaacata tgattatttt 180  
 tttttctcct aaagttgaaa agcttggaat gtatgtccaa cagtggagga aaacattttg 240  
 tctttcaatt taaagaattg tgcaaggata acattcaaac acattctatt agggcacttg 300  
 tcaaatttga cacaaatact gaatgactgt agccaaagag acagggtcag aaaatgccaa 360  
 catctcaagt gtgataagaa caaggcagat aatatgcaaa atagcctttt aaaaaagttt 420  
 tcttttgtaa cattttcttt gaggacagag ggcagtttgc ttcaggtgac tgggaatttct 480  
 tgtgtcaggg atgcagttga tgtacagaga agcatcaggg catcagaaag ccattcactc 540  
 attcctacgt acggcaaagg gcacagagaa ggccaataga aagccattca ctcatctcta 600  
 cgtacggcaa agggcacaga gaaggtcaat agaacacttt attgtattgt tcctttgtaa 660  
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<210> 881

<211> 721

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI170752

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 cagaatctag ttaaagagag ccacttctct tagctttggg gttttacaca cacgggcaca 180

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gacttcaaca atcacatgaa gctaactgac actgattaca gtgaaagcct gacagtaaag 240
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gtaactatac agtctatgca tttttctaaa aatatatttc caaacctgga aaagggttaa 420
aaaaatggga tgaagtatat aaaaacattt ttgaaggaaa atcattacat aagatttgtgt 480
gtgtgtgtgt gtgtgtgtgt gtgtgtaacg gtttgcttgg taagatttaa ggggactttt 540
gctaaagaag tcatacaccg aggtcaggct ccagaagtgt cctctgagct agtcatctta 600
gttttccatg agagagttct gatacaacca ccaattctta acacattagg taatatgttt 660
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a 721

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<210> 882  
 <211> 671  
 <212> DNA  
 <213> Rattus norvegicus

<220>  
 <223> Genbank Accession No. AI170763

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cactacaata ccacagcatg ctgggttcaac tgctaaagttt acctttcact tagcagagta 180
agattggttt gatattgtgac aaaccaaggc acggaccgtt tgggaaactt tctgcagcat 240
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cagtctaatt actgtggctg ggataaggta aaatacacct cctagacttt cacatagacc 360
atgcccacaa cagcaccagc ctttcatcaa cagtcctcag tataagcact gtaccctaag 420
gatttttctga ggtggatggt gacctattg ttgataacct aatatggctc tattttaaat 480
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ttttagggat agaactcaag gccttgacca tgctaagcaa gctgtgtcac caagtacagc 600
tctaagcttt tttccccctt gaaaaatttc ataatatgac ccagtaattt tcattttgaa 660
aatgtaaact a 671

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<210> 883  
 <211> 618  
 <212> DNA  
 <213> Rattus norvegicus

<220>  
 <223> Genbank Accession No. AI170770

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acacaaaggc ctgcctcgat gaagcagctg acaggcaagg gagctcacag gctgtgcttt 180
tgctcatcgg tctatttctc caaatacaat atcctgggtg cctatgatgg ctacgacatc 240
tgccagcatg tgtcctttag acatcttgct caaacctgcc aggtgggcaa aaccgggagc 300
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gcccttagga gcttcaatgg cgggtgatgt ggctcctgga ggaacttggt agccctcagt 420
atacagctta aagtgatgaa ttagtgactc catggacgtc ttcattctctg ctctgttagg 480
tggggacact ttggcgatc caaccttgat ctcccccggc ggcattctgt tcagacactg 540
ttcgatgatt cgaagggact ggcgcactctc ttccacacga cacagatacc tatcgtagca 600
gtccccctcga gaaccaat 618

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<210> 884  
 <211> 585  
 <212> DNA  
 <213> Rattus norvegicus

<220>  
<223> Genbank Accession No. AI170773

<220>  
<221> unsure  
<222> (1)..(585)  
<223> n = a or c or g or t

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agagtgattt cagaaaataa aaaaggaccc tagaggcagg cggtagtgcc cctccccccg 180  
caaagacaca ccaaatttca agactttata tatatatctc tgtgccctgg ggggaggaga 240  
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<210> 885  
<211> 629  
<212> DNA  
<213> Rattus norvegicus

<220>  
<223> Genbank Accession No. AI170795

<400> 885  
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ttgctatcag agacacattg aattcaaaat atttttagatg caatttgaca aacaaaacaa 180  
gcaacgccaa aaaccttatg gtgagatttt aaaacagaac attctttaat ttcctcccaa 240  
gttactaagc agtctgatga cttcatttta ggaccacaac gtgatcactg cctctagtct 300  
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ctggaaaata actatgctta cttgctgatg tgtccgttca ggtctgagaa agaagaaaat 480  
ctacaaatgg tccaaagatg aaaactttac tcaagtctta gatctgcttg agtttcttct 540  
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<210> 886  
<211> 662  
<212> DNA  
<213> Rattus norvegicus

<220>  
<223> Genbank Accession No. AI170820

<400> 886  
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atgatagtct cgacagaaca cgcagctcat tagcacagac tcagatttgc tcgtcgttac 180  
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gaagttcaat tttgtgataa tttacttttt tcaaagaaat agaatccaaa ttcttgtttc 300  
atattttgtt ttataagcag atttttgcaa atttttttaa atgtaaaact gtgacagtct 360  
ccagagaaac tgagtgttac aacttggcca gagagagctg ctgtacagtg acaagaagcc 420

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acactcctgg ggagggcagt gctgggacgc ttccgtctgc tggctactct acccagagca 540
agggcactct cctgcctcgg aacgctggtg ccagtctctg ccgcagacac acacctggaa 600
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ta 662
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<210> 887

<211> 641

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI170821

<400> 887

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gcagttcaga gaacacaatc ttagacacag gacagtcaag atgagtccac gttagttaaa 180
gggcagcttt gttaaagtgt tttgttctat tattcaaatt taatgttgga tggaatttaa 240
aatgttgctc atgaaataat ttaacctttt caaaatcttc taataaacag gtaaaaggca 300
cctctagtac tttaagcatt tacagcaatc ccaacagttc catttcaatt ccattgctcc 360
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tgcaggctcg ctctgggttg tgggtgtggg ctgtgttact ggtgatggac tggggcccacc 480
actagtacag cactagtgtg acacgtctac cacagcataa aacccatcca gtcacctaca 540
ataaggactg tcaaattccc acacaatata tcattgttta acttgtacat tcagaagact 600
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<210> 888

<211> 426

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI170967

<400> 888

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cacgggacag acacacccaa agttcataat gattgtgaat ggcatccta cggctcgcac 240
gccaacaatg gtgaatcagg cacacattac aaaactcagt ttccaaccgc gtcaggcgctc 300
cacaatgagg cgaaagcagt gaaggcggtt ggactgtttt cccagcagcc acgctgaatc 360
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caccct 426
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<210> 889

<211> 602

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI171088

<400> 889

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cagggcagcg caggcagcat tctggggcct gtaacacttg gttggtgggc aagagtcac 180
tgggagtcgt gtccaggact ggtggtccca gacagcttgg aagctccttg gtccaatcca 240
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actgagggtct cgggtgggtgt tacagtggca ctggattcag cttatgtcat tcagggcctt 300  
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 ctgcatctgc tctacctggg cctgtgtcag ctgctgcacg ggctcccga agttgggtgct 420  
 cgggtttttg ctacacagca tgaagccgat ctggccactg ggataggtgg gaatggtaca 480  
 gtaggcatag ctcaccacag ggaagagaga cttgcagaaa tgcctcatct ccttgatgag 540  
 gtccagggtgc agccactggc actcgccctg gcaacagagg atgccatctt ctttgaaggc 600  
 tg 602

<210> 890

<211> 534

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI171094

<400> 890

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 agaatggata aagaaaatgt gggttcattta tacaaggagg actactccgt cattaaaaaac 120  
 aaggacagca aatgaatgga accataaatt atcatcccgg gtaactaat ccagactcta 180  
 aaagggtatgc atgggtatgaa ctctgtttta gaggatttta gccacaatgt acaatggtac 240  
 aatccacaga cccaaacagg cttaaattaca aggaggacac aaggcacgat gcttgaaatc 300  
 ccactcacag ggggaagtaa gtcttcacag gcagattgag ggaggcaact gtgtttctta 360  
 ccagtttgta tccttttatg tcttacgcgt tgactattcc acacaaagggt gttaccacat 420  
 tggtcacatt cacagggtcc ttctccagta tgtgttcttc aatgtatttg gagactatgg 480  
 tgatgtggaa aggctttacc acattgtcta cattcatagg gttagtctcc tgta 534

<210> 891

<211> 539

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI171095

<400> 891

ttggaaacat ctttaattta gttactgggt ccagtcttca ctacaacca taacactagt 60  
 tagacatcaa atctccacca ccaaaaagca gacagaaccc aagagggggc cgctcccat 120  
 tgctgtgtcc tcattgctgg ccaaattcca gcatgctagg ccgacttcca agcttctctc 180  
 tgtgtcctgc acagctgagc ttgaagcccc tgaggcctga catagggtaa acatcgaggc 240  
 cccactctct cctcaccatt agatttgta gttccaagggt ccagtgtggc gccacagaaa 300  
 atccactgtc agttcctgggt ctggtgagcc ttggggaggc gtttctgtag aagatcccaa 360  
 gccttttcca cctggcgctg tgtgacatgt gattcccaca aggtgcacag aaccacgtgg 420  
 ctctgtctta ccagctgctg cccactcatc tggttctgca accggctttg agcggtgcc 480  
 tcactcagtc catcccttcc aacaatgcga cgtacagcct cagactcagg gatgacgac 539

<210> 892

<211> 570

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI171229

<400> 892

tgataaaatt ttacttagc tataatatac attttcaaca gtttaaataa aaatttttcc 60  
 tcatgatgtt aagtgaatgt tattttcttt gagaatatct ctttttcat taaaataatt 120  
 tctgaaccac tctatatgct cgacctctg tctaacgctc agatatgggt ttttcgagag 180

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gccacaggtc accagctcca tgaacaggcg aattgggtcct tgcttgggga aatcctccag 240
gtgcttctcc aaaaatatat gctcatggaa ctctgagcca tcatcgtaa gacctgttc 300
attgttaact gggaactccc agagagaagg tgctgcttct gggtcagggtg cttcgctgtc 360
aaacgcctta acatcaaaaa tgcgaagtct tttccccttg aacaaacatt tctccttct 420
gaaatcagct ggcttctcct ggctaagcga actgtccact tcttcgtcaa actgaatctg 480
gtgctgtggg cttgaactaa ctctcatcga aggggatttg gcaattttca tattcgatat 540
tatttgagtg aagctaaccg tgcgcttctg 570
```

<210> 893

<211> 575

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. AI171231

<400> 893

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caggattaag tgtttatttt agttcagtta aaacaaacat acattgtttc attgaaactg 60
gcatagcact ccctgccaac aagccacagt ggctgtcag cctctacagt acagcggggg 120
catttacact atatacatat aaggagtcca cgtgacttcc attgaaatca catgacaagt 180
taccagatag ccgcgttgta cctactgcat tttgaaaatt tagacacctc atttaaagct 240
tttagtttga tatctgaact tgcgttgatg accaaccagt ctattgcaca tacaattaaa 300
acaagttatt ttcaatttta gtattatata caatgtcaat attgaatcct atgtacaagt 360
aatccgggga cctatatata atgtgaatcc atcaaaatgc agttaagaaa atttaggggg 420
aatatatatg cttgaaccca agacccaatt ccaacatggt atacagctta tttacaaata 480
catatggaca atgtatgtac agtttaccat aaatattgaa aaatagggtt cctttaatgg 540
atcaatgctg ctctataaat aacagtacag ttatt 575
```

<210> 894

<211> 588

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. AI171262

<400> 894

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gagaattcat taaaattttt attttgaatt atgacctatt ctgaattcaa aaaaatctac 60
tttgaaaaac acctcattgg gtgttgactt actaataaaa agtaagtcac cactgtttga 120
acataatata gaatacacaa taaattatat ttactgcac tgaccagatt atcacacaca 180
aggtaaaaaa atacagtatt ttatgtacat tcttaaagat ttacattttc acatagggtt 240
ataaagttaa aaattctctg tacaaaatct tccgtgtaca gagtgtacac atcttcgtcc 300
ttatggctgt atcgccacac agaactgctt taaactagca ctacaacact ggaggggtca 360
cttcatattc acatcttggc acccatgtac aacacatcat gaaatgtgaa ttataaaaca 420
attagaaagt aatcatgcag ctatcttaat acaagaaagt gagatgagct gatcagcact 480
tatcacctcc atttctgttc gtatctgtgc cacttcctgc tgtgtatgcc tattccactt 540
cctgttccgc tttcacacag gtgcatgcaa aactagcaga ttatgaac 588
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<210> 895

<211> 547

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. AI171263

<400> 895

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gacagattag tctttttaata gaaaaatccc ctgcaaaaag tcaaaagcca catgtgcaac 60
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agtagcaaca acacacattt cttcaatcca gacagtcgag tttcagttct tcgccttggg 120
aggtggcctg tacacaccta caaccacagc gtggtctcgt tcataaggct ctagtgtcaa 180
ctgctcctga ggcttcatgt tctcttgctg catctttttc acttcagatg caaacacagc 240
ttctgctgag gctggggaat caatgcagtt ggccttaatg gaaatcacia agtgtcctcc 300
attccgcagg aaggtgtggg cattcagggc cacaattcgg gtttggctct gctggggccac 360
atcggcaaag atgacatcca ccattgcaat aagcatgcgg tatttgtgtg ggtgccgagc 420
attttcaatt acaggaataa tggttggtcct cttcttgccc aagttgatga ggtcacggcc 480
agagcgggtg gagaactcaa ctgcgtaaac cagaccatcc gggccaacia tgtcagacac 540
gtgggaa 547

```

<210> 896  
 <211> 425  
 <212> DNA  
 <213> *Rattus norvegicus*

<220>  
 <223> Genbank Accession No. AI171305

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<400> 896
aagcattcat gtaatttatt ttccttaa attcgctac aatcctgcc caaattaaaa 60
aaaaaattaa catggtattc acagagcaga attcttttagg acaatcaaaa tcccagagta 120
cttagaataa attaacatca aattgggttt atattcagat agcctgattc tctcctctga 180
aatgaaatgg agaccattgt aacctagggt gaacgaacac acttgttctt ctgtatagac 240
atgaattctt tacataaact caacaataa ttgaatcaag ttaggaatcc tgagaaagtc 300
accacacctac aggccacgag acatattgga aatgggtcac tgtgtgctct tccccggtct 360
cagtgtttgt aacaagcatt tttcgggaca cttaagcaat ggtacagtcc tttgcctgac 420
actgg 425

```

<210> 897  
 <211> 397  
 <212> DNA  
 <213> *Rattus norvegicus*

<220>  
 <223> Genbank Accession No. AI171319

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<400> 897
gaacatgtta ctttttattt aaaagtgtta ctagccctgc ctgggggtcc tatacaaaaa 60
caacacacia cccaaatgag gctgcttccc gtctctagac tcggggacag tgttggggtt 120
tagcgagtag aatgtgtgct gaaggagggt acccaggagg ctcctacccc agtcctcagg 180
atggcaccag ctgtcccgtt gcctttctat ttaccacaga ggaaggaaag gcagtctttt 240
gagatgctca gtagaagtcg agcatggatg gcccttgagg gtcccacgaa ggggtcatttg 300
ctcgggtcat gctgcagatg ttgcgagtg cgccgcagcg acaaggatgg caccggatag 360
cttaggggag caagcaccgc agcgggtgcc accgcga 397

```

<210> 898  
 <211> 531  
 <212> DNA  
 <213> *Rattus norvegicus*

<220>  
 <223> Genbank Accession No. AI171354

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<400> 898
caaagttaaa aatttttttg atttaaaatg cacttataaa atgtccacag aagacatgtc 60
atttttcact gctatataaa tttattggga atgttattca catttattgt cacctaaaac 120
atactgtaaa caatgggtta ttcctaaga caaatgcata cgtgattctc agcaatcatt 180
ggtttgatta ttagtaggtt acaagggtcac atctctgtgg aatgtcagtg accgctgtag 240

```



<400> 901  
gaggggttgga tggattgtaa ttgatgggtg actgattatg gaattaaatc ggggtatagct 60  
tccagctggg ctcttctctg tggcactggg accactaggc tgatggcaag ggggtgggcag 120  
gaggtgctga gaagcctcag ttcagttcct gaatgccagc tgcccaggag gggcgggcga 180  
agggctcagg cagctgcagc agaggggtga gggacactgg agtccacagt gtcagcgccg 240  
ccggcagaac ggttcttggtc aatcacttct cgaagtcctt tggcaaagtg gaggtcagcc 300  
ccaacagtga cgaagcctgc atggttgggtc accacctcat gcacgaagtt gataccctca 360  
gggaggggga tctgcacccc acgccagata cgctcattca acanaggcat cactccgatt 420  
tgcagcagcg tcttcagtgg ggccctgcagt gggatcagtg ccagagactc cagcgccagac 480  
tgattggagt aaatt 495

<210> 902

<211> 631

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI171587

<400> 902  
atatatacaa caaatttttta attatgtact gaaaataaat tacaggaaat aacttttaaaa 60  
tgcaacagag gacaagtcac aataaaacat tcccattgaa ttctcttggg ggtgagattg 120  
cagtgtctcaa ggaagataaa tatcacaaat atatcaaaaac ttcaaactgt ctatgcattc 180  
acacactgac atgagccaca gacattcctt tcacaggact gtacttatta gcctaccaca 240  
gaaccagatt ttgccataaa ctacaaaact tttaatacaa aattgtattt atatatttat 300  
aattcatata catgccctac ctgtaatttt tagaaaataa aagctacaca ctgtacagac 360  
actcttaact cacagctgta ggcaacattt ttggatggaa tttctcccc aataaaaatta 420  
atggcgtatt ttatgtacat gaaaggctaa actgcaaaga cagctcagtt tcccagataa 480  
tgcattctccg ttcagggcag gtttacaaat ttaaaaaggc aagacaatgt acacctcaga 540  
attaccttct cagctacgag ttgtcatgtg atttctgtga agtttctgat acatgcattt 600  
atgtaatact ggcattgaag gcagtaaagc a 631

<210> 903

<211> 515

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI171611

<400> 903  
tttttttttt tgagagggtg tgtttattac gccgagcctt tgcactacgc atccacctac 60  
agtccgtaaa caaatacagt acatttggaa gtaggaggct agcccatcag aagtggcaga 120  
gaaacaattc tgttcagaca gtgcaacctc accacagcgc cctccttagg ccagctgtga 180  
aaaacaccag aaggcaggct taggccccag ggggtgatct ccagagattc atcagaaact 240  
gccgtggaga ggagcaaggc aagagcttac ttagttacat tcacagggtga agcttctaata 300  
ccaagtgtcc ctagcgccac aagaaacagc aatcagcagg tggttacaga attaggtaac 360  
tcagagtaaa gcctctggcc gtccgagcaa atgaggaatt tgctgtttt catcatgggt 420  
ggactatgat aagaacatca gctgacttca gggggggcatc agtcaggaag ggtcgtttca 480  
tcctggccac atgtccacgg gtccacagaa agcaa 515

<210> 904

<211> 708

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI171630

<220>

<221> unsure

<222> (1) .. (708)

<223> n = a or c or g or t

<400> 904

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gaatctgaaa aataggcttt actttaacca gtgggtattgt ctgacatcct atggcatacc 60
agatcacaaac caagttcaca aatacacata cacagcagtc ttctcattcc cttgtcttcc 120
aatggagaaa ctgggtggcg gcagcatcgc accatggatg ccaggagctc ttctgccagc 180
tctagcttca agtccgggcc ctggggcaca gtcctaacac agcatggcca catgtgcaaa 240
ggcatcctca atacaataac cacgcctggc gttcaaacc agacgttgct actaaccatt 300
gtgaggggat gacgtggagc tggactgcat actgaggcgg tgaggcctgg ccagtccggc 360
tccttctggg ctccagatga tgcagggtcc taccctgccc cacagaactg catgtccctg 420
cactgataga gaatggagac accttgacct aaatacgaga cctgtttcgt ccaacactgg 480
aattggcttt acacttttctt acatccaaca gaccaatcac attctcgtgc ttcattgtgt 540
tcagcagccg cagctccctg taggtccttt tggcgtgaat gatggactga aacgggtctcg 600
acagcttctt cactgccaca cgatgtcccg tctntgtatc aaaagcagca cacaccgagc 660
cgtaggctcc cgagcccacc ggggacaggt tctggtatcg ctccgggca 708

```

<210> 905

<211> 617

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI171646

<400> 905

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gttaaaattt ttatatataa aagtggcatg aacttttcat gtagaacaaa aatttaggga 60
aggcaaaact ggataaaacc attaaaactg aaatacagtg cttcaagtga atcccatcac 120
ctgggtgatgc tataagcagt ctctaagcca acaccagata ctagaaccac caatcttaaa 180
aaaaaaacaa aacaaaaaaa caaagaaagc agcagtctag ggccctccaa gcacttcatg 240
caagaataac tgcttgtaaa gcaacgggac ctgctccttc tctaagctcc cccttctgaa 300
gcaggataac cccttttgca gggtaagtaa tcacagcact gaaacagagt gcctctcggc 360
atctagtgtg atcccaaaga atggcatgaa ggcaaaccac gcattgcctg cgactgcaat 420
gctgcccttg gaggtgact aaaatggagt taaaagtgtt aaagtgtgca ccacattgcc 480
agcaatggga tgtgtcataa tatcagatgt cagaagagtt aagctaatat ttctctttaa 540
agcacatctg aaatagaaaa atctttaata tacaccattt gtaaacaaaa ttgcacttga 600
ttttgaatcc tcgtgcc 617

```

<210> 906

<211> 684

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI171652

<400> 906

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ggccataaca aacaaacaac atgaggttta atcaagcaca ggagaaaaaa cgatacatc 60
aacagatgtg gtatacagaa gatgaggctg ctgctggctt gttgttgaaa caecatgtga 120
gtatactctc ctatgaaagg taagtaggaa aatgacttgg aatattctga tctgtcttca 180
tacaggaata ttgatggaga gcaaaagagc ataatacaaag gcagcagtc actctgaatg 240
gacctgtgtg cctctggctg taggccagca agtagcactg ccatcttcta gcttaagaac 300
aaagctcagc agtctacggg aaataggcac ttacacaaaa gtttttaaaa caggagtgtt 360
tgacacttga aggatttcat tccaaactct caattatata attacaaaaa aatccatgtt 420

```

tcacgaaaat atcctaacc taacataaaa ttcagatcac ttaccacaaa gttagacaaa 480  
 tgtataagga aacagaacag aaagcatatt tacaaaattta gactacatga gacattgtga 540  
 agaatcttta acaacactct acgtactttt acaaaccaca tttaaaatga ggaatctgta 600  
 aatgatgtga gaaagggtcat agcgtgagaa ctctaacttt taaagtccaa agttatgttg 660  
 aagattttta aagtaatgat gaaa 684

<210> 907

<211> 502

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI171674

<400> 907

aagctgcttg gtttaatttt ttttttagcac ttgaaaaaaaa atgtacagta gtttgaattc 60  
 agtcttttgca aacctctaca gaggtcaaag gtttcattca tccgtacaaa attagttaca 120  
 aatttatattt tggcaatttc atcttagtaa cccgttttat cctattgccca ttgtcccaac 180  
 cattgaaaaa gtttacaata atttacatag aaatatcttc aaagtgtta agaatagtga 240  
 ttgttctctg ggatatgtac aggtggccta tacagtatat gtacagggtg gagtcactat 300  
 agcacaaggt tcattgctgg aatatggctt tctagggaaa gtgcatattt ggccagagat 360  
 ggcaatactg tctagggatt caagggttac agatacttgg taaccacatc caaagctgaa 420  
 gtagaacgtg gccagaata tttacaaaag taatataaaa atgatcaagt acacaagctt 480  
 gatccacgaa aagatatctt ga 502

<210> 908

<211> 508

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI171684

<220>

<221> unsure

<222> (1) .. (508)

<223> n = a or c or g or t

<400> 908

aaaatgtttc caaatttaaat taacagaata aatttacaaa accatgaagc tcaccacact 60  
 acaaggcaga agagtagacc atgcctgaaa caccocccaaa gaaaatgtta tgattgtgac 120  
 tcaccgctga cccatcatca gagacagggc ccagatgatg aggggtgatg tgatgggtgat 180  
 ggtgatagaa cagacacaaa ttcgagacaa taacgtgcag tctgcagaca cccactgtag 240  
 acagaaggag caggaaagag gaaatggaca gaaccgcgca ctgtggagac gaggtgaaag 300  
 ctggaggggg agggctgtgc ttcagataat acgtgggtgaa caggaaacc agagaggaag 360  
 gaatttcacg atcaaccgtt caataagaag gagaaagtaa gacctaacag tagcttcaag 420  
 atataaagta aaaacggaag aattagcttc ccagaataaaa ttaacctctg gtcctctggg 480  
 cgcgggcgtt cggngtagac tccggtca 508

<210> 909

<211> 452

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI171692

<400> 909

gaggggtccta ataacttaaa actttattag gaacagtagc aacatcctga gggtcacagga 60  
 gaagatgtag agaagccaca gagccttggc aggggttaagg tggtagcggg cctgatattc 120  
 caccctttcc tgccccaggc agagaggcca gaaacaatca aaaccctaca ggcaacctac 180  
 agaggagtag gctgagaccc agaactggcc cccaacccaa tagtccagat ggacactggg 240  
 aaaggatggc ttcaaccccc aagacatggc ctctttttctg gaaacatgcg cagtccacaca 300  
 gctgggcccc tcagtggccat ccctgtgcta aggcatagct gaggcctgtg ttcgaggtgg 360  
 ggctgagggc agcctttctca ggggttgagc tctttccact tgcgcagtct ctaatccatg 420  
 gcctggaatg tggccttgct cttgacaaaa ca 452

<210> 910

<211> 471

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI171726

<400> 910

acttgagctc catagtatat tttttttctc attaaagggtt caaaacccaaa agcgggtttct 60  
 ctttgcagca aatatacatt aaaatagagt ctctgtacag ccaagggctc tgggcccctgg 120  
 cttgccccat ggccctgcgc ctccctggcc aaacccaaaa ataaatatag tgttattgct 180  
 ctgcaggcg tagaggcagt gctgtcccc atcccttgag gtgggagctg atagggggcc 240  
 ctggccacc caggggtcca ggggctggag cctgcttgga gttattgctt caaggggggg 300  
 cactaatgcc caatgcaatg aggagaggag cgaaggggca gggcctttgc tttccaagcc 360  
 cccctctgct ctggagagga ggtcggagta agcagcagca aaagcatcac ccactgggag 420  
 actgtggtct ccatccccctt ccctccctga gatcagtttt tgccctctac a 471

<210> 911

<211> 431

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI171727

<400> 911

gaagtgaacc agcaagcctt taatggggat cacaggacgt cattcagatc ccaccggctt 60  
 tcgccccaca agggagaaga gtccttcatt attggatgtg gtagaagagt aactttgaga 120  
 aatcacctcg aactgtctga tgggtgtacc agcctcttcc acggcatctc gaacagcctc 180  
 ccgggtccagg gaaaggctgg aaaacttctg ttccccaatc atgtagtagc tactcttaag 240  
 agcgtccacc atcaccagga agccccctgg cttgagcagg ctgcccagggt tcctgagggc 300  
 agtgcgatag gccgggaggt cagggcagg agcatccagg cacagtgtgc tgagcaggca 360  
 gtcggcagga ggcagagaga cccaccccag aggctggctc tggctcacat cgcacttcag 420  
 cacctgcttg a 431

<210> 912

<211> 573

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI171745

<400> 912

gaggtcagaa acaagcttta ttacacagc gataataaag atatcaactc gaattattcaa 60  
 taatttagct ttgggttggc tacaagttca tgccgcacca atcctgtttt acagtagttt 120  
 aagactacac ttggtatttt cccttggttc tgttattctt gaaacttgta aagattcaaa 180  
 atactgtaga gcttggtgaa cagcaacata aatgagacaa tgtactcaga gggtcagtctc 240



tcacaaaaaa tacgttatat ccaagttctg ttagggcgcc agccagtaag gcccataaaag 300  
 gaatgaagac ataggagaga ttgatggttag taaagtgttc cagtttagca cacagtgcga 360  
 ggacagaaggc taacttcagt aacattgcga tgaggtacca ggctttcttt ttaatatgt 420  
 gtgatccatg tcgggggtcg aagccagact tacaccgtcc agccattttc acaatcagca 480  
 tgacgagaag gatagtgtca aatatccaga ctggaataaa tatgaggaac cagttccagg 540  
 gtgccttctc atccagtttc aacaccaaca tga 573

<210> 913

<211> 667

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI171772

<400> 913

gtggtggcgc atgactttta taccacttag gaagcagagg cagatgatct gggagttcaa 60  
 agccagctgg ttacacaggt gagttcctgg acagccaagg ctacacaggt tgtcccaaaa 120  
 aattaaaaaa ataaaaggta caacttgtca tctcaagtct taggatttta gcttctgtca 180  
 aaatgtcaat acatgaacaa actaccccag caggaacaca gagcgtgcgg tgagccagcc 240  
 atacaaaatg aataaatgac tattgtcaga cagatacgat tataaaacaa ttctacaaaa 300  
 taccttcttc aaatttcatt ttaagatgag gaaaaataa atctgtcatt ttatttaaca 360  
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<210> 914

<211> 534

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI171795

<400> 914

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 gcttatataa atcaagtcaa gttttattcag ttaaagaaaa taggactatg ctttcttata 480  
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<210> 915

<211> 653

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI171948

<400> 915

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tgacagtgtt tacatgtaca aaaacccggc agaagcatcg agtgacttca gtatagacgt 120
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agcaggactc gatctcactt cgtagtgcac ttccgtcaca agaagggctct cttgtgtaaa 240
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<210> 916

<211> 589

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. AI171990

<400> 916

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acacagagta gacattacac atgaagaatc aggaggggtac actgctggaa ttaggctgcg 180
gtcagttttc tctgccactg acattgagaa ggcggagatg aagctctgag aagatgcagc 240
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<210> 917

<211> 647

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. AI172041

<400> 917

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taataagtta tattcatatc tgagattgtt taagctttct catggagaaa aagaaaccag 180
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ctcgttactg ggcagctgat gcacaatttc ttctttgtaa gatgccatgg cttcttcata 540
gagaacttga aaaatctcac actgaatatt atcttgtagt ttcttctcgt gataaccctt 600
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<210> 918

<211> 647

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. AI172056

<400> 918

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ttttttccct gagagacgtg taagacaaac agaatttgct gagagccatc tttccaaaca 240
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gtgagacacc tagaaagacc aatacaaaaa ttccaaacaa agcttggcag tcattagtag 360
aaaagaaata catatttggt ttattgacac caggcttaaa cttgtgttaa acaagtaaag 420
cctgtgaata gcaccgtggt aaagattagt ctgctttccc aaagcatttt acaatttagt 480
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cacaactggc tctgcatata cactagaact gatcatgaca aagtttt 647
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<210> 919

<211> 660

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI172057

<400> 919

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tgccaaacga cgactgtggt tagtaatggg aaaaacactg aatctgagcc ggtccatctg 300
aattcttgct tttgtccttg gatggatgat ctgagaggac agccttggtt aagtctttca 360
gtttaaattg acagagctgc ttttatgggt gtgtacagtc tttttctaac aacgcaaact 420
tggaaccaa ttcgacctgc atataccata taactcctgt gccctgtgtc atctcagtcc 480
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tgacagatta caaagtcacg gaagtccgaa gaaatatgag ttgacctcag acatccttct 600
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<210> 920

<211> 630

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI172075

<400> 920

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gccaggagtg agcaagtgcc ctggtgaaga ggggtaagtg ccagggtccc tcctagccct 240
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<210> 921  
<211> 585  
<212> DNA  
<213> Rattus norvegicus

<220>  
<223> Genbank Accession No. AI172107

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aaaaaagtca gctgcagcca ggggtctctag tgtcagccat ttttcaaaga ttgtagtttg 180  
ggtttctttcg aagaatgaca aagccttcca gaattggggg gacagggaga aactcctcag 240  
tggccagctc cgcccgttcc ccattgggcca acagcactgg agttgtgtga gtctggaacc 300  
ccgtgatcgt tttgggcttc ccagcctggc ccaccacatc cactgcctga cccacgcgga 360  
cagaaactgg caatggctgc aactcctcat caaatgtaac cagcatccga ggctgcatgg 420  
cggccaccag cccatacagt acatagttag atttccctag aatgatgttt cgcacatcca 480  
ggaaaagaaac aagcacgggt agcagccccg ccacagccac ttgactcatg agctgccggg 540  
cactgtggta ggggcagagg gtaagtgtgc ccttccttaa atgtg 585

<210> 922  
<211> 696  
<212> DNA  
<213> Rattus norvegicus

<220>  
<223> Genbank Accession No. AI172189

<400> 922  
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acagattatc aaatataata gagaatgcaa ttagtgctt tttgtcaca tatcaaaaat 180  
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cacagagaaa ccctgtcttg aaaaacaaaa caaaacaaaa aaaaaaagg aaaaagggga 360  
aaaaaggaaa actttatata ttggatgtca tttaagtgtc taaccaagca aacatgccta 420  
acacagacag ctacattct tggatgaaa gtcacaccac agaataatgaa tgttataaca 480  
cgacttgat gtaccaaata aagcaaataa aacctatcat ttagtatgtc tgcttggttg 540  
cttttggtca actagtcggc agacttaacg ttgtactgct tcactccagt agtctacctc 600  
gtgaggttag gttctgtggt tcacgtcaat tgtgggacga cagtcctcat gagagctgag 660  
cgtttttgca ggaaaacagc tttcatttcc aataca 696

<210> 923  
<211> 607  
<212> DNA  
<213> Rattus norvegicus

<220>  
<223> Genbank Accession No. AI172274

<400> 923  
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gaatccgggt ccggacacta agtcagataa acctggctgg atttattctg tgagaggaaa 180  
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tgtgtgctta aaggtagctg gggttacttgc ccacaaattt gggagggtcgt ttctccctga 480  
aggctgccat cccttccagc cggtcctggg ttgggatgtt ctgggcatag cacatatgtt 540  
caatggccat ccctgatgcg atgtccacct ccattcctct gtcgatggca actttgcccc 600  
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<210> 924

<211> 668

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI172281

<400> 924

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tgagcaaac aactgcaatt aagaaaaaaa gtcttgatat acaagggaac ctatgtgttt 180  
tggttaaga cacatgcaag tattaacaaa tattctaaat acaatatgag aggaacagtt 240  
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caaatggcat ggattcttta ttctaaaga atgttataga aagaattata gcaccatcat 360  
taaaagtaat aatttttagcc ctgcctatct ccagtcttgg aatatcaaca gaagcatagt 420  
acctttcaac acctaaaaag aataaacaaa aacaggaaat ccatcccaac ttgtagagat 480  
gaggtagctc atgctaaaaa ctgttgggtc atattttctt atgaatgttc taattttatt 540  
tgagtgatca tcaaaactct gggcttctcg atcttttctt tgtgatagct tcaggaaatg 600  
agacgtgcct gtgggagagt ctccagcattc attactgtgt atgtgtatta gaaaactgtg 660  
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<210> 925

<211> 634

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI172285

<400> 925

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gttaattccg gcaagagtct tgccaatctg tttgaaagtc acccctgacc tcatttcagt 180  
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ggcagtaatc caggaccgag gcgttgctc gcacggctgc ctgctgatg aacggcgggc 480  
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gcggactcac gcggaactgg aatgtagcgg cagcgagtcc ctgctgttcc gtcagacagg 600  
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<210> 926

<211> 730

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI172302

<400> 926

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gaaggtaact	aagaccaga	cagtatgagt	cctgggtgac	ctgctaaagt	gctttctctc	180
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<210> 927
<211> 624
<212> DNA
<213> Rattus norvegicus
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<400> 927						
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aacaaaatta	ttcttttgag	ccgggggtctc	ctgtagcctg	agttgggtgca	gaacttctga	180
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tgccaaatgt	cctgttcctt	ttctccaatc	aggaagagaa	aattcttttc	caaatcactt	480
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<220>  
<223> Genbank Accession No. AI172405

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<210> 929
<211> 651
<212> DNA
<213> Rattus norvegicus
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<220>

<223> Genbank Accession No. AI172417

<400> 929

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<210> 930

<211> 534

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. AI172471

<400> 930

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<210> 931

<211> 606

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. AI172491

<400> 931

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tgagggaat tgctcacatg ctttaaaaaa catctccatc atatatatat atatgtaaaa 180
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<210> 932

<211> 649  
 <212> DNA  
 <213> Rattus norvegicus

<220>  
 <223> Genbank Accession No. AI175033

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 atgtttcaat aaatataatc caaaatttgt aaactaagta accagataga tgagtcattt 180  
 tttctagtaa aaccatataa aatattttatt tcatgtgagg tagaggacag ttttgtgtgt 240  
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 tcaatcgagt tatgctcaat gtacctaattg tgtttccgta gttgcagaag ggaccattca 360  
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<210> 933  
 <211> 437  
 <212> DNA  
 <213> Rattus norvegicus

<220>  
 <223> Genbank Accession No. AI175294

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 ctttacaaga gactttgaca ttgtagtgtt agttcatcgc tgcccactga acgatccccg 180  
 tgtgcatcgt ctttgtcttt ggtgtcactg gtaccaataa acacagttca cggctttaa 240  
 acctaatac actaactagg aaaaagtaaa tcaacgtcac ctttttcaaa attaaatata 300  
 aggactaatt tttgtctcat ggtccacaat acctggaaca tcatgccaaa atattaaggg 360  
 ttaaagggaa cattattctt ctctaattgc accaaaatgt ggctactgta tgctggtgtg 420  
 atgacaacca gtgggca 437

<210> 934  
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 <212> DNA  
 <213> Rattus norvegicus

<220>  
 <223> Genbank Accession No. AI175338

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 ttgcttttga ggcagggtct ccaggaaacc aggctggcct caaacttgct gtatttgagg 180  
 atgaccttag actcctgatc ctcttgcttt ttcctccaag cttggggggg taagagccat 240  
 gtactgtgtt ggacctagta gtgttagtaa caggccataa gtctccgttc actagccttt 300  
 gggcgtctcc aactgctgtc atagctggct ggtcaactctg geetgtgagt cccagggtgc 360  
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<210> 935  
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<212> DNA  
<213> Rattus norvegicus

<220>  
<223> Genbank Accession No. AI175423

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caggctataa ttattgaaaa tagagtgcag tgaaatgagt taaatataat ttaggcacac 180  
attgattatg aaaataggtta tctctcaata caatacttct ctgtcttggt aaaaataata 240  
acacaaagaa aataattcat tttcaaaatt gctttccttt ccctgtaaag gggcgctctc 300  
ctccccgtgt aagcccttta ctgtgaagga aagctttgca tatgtagata taagaataag 360  
ctacagagta atgaagacaa gccactctcc tgaaggagac aaggctcatct gtaaggattc 420  
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gctcttgga aacacataag gacactggga ca 512

<210> 936  
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<212> DNA  
<213> Rattus norvegicus

<220>  
<223> Genbank Accession No. AI175475

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caagaactcc ccatttacca aggagaggct gtttcctgct agcactgtct ctgctgtacg 180  
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caataggcct aacattatca aatttttttc aaatgataag ggggtgggagg gactgctacc 360  
caaagaaagt tcctcagtc cagtagcatt tagagagatc ttacatcaaa agcacaaggg 420  
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gtgacgttct gcctttcacc tgtcttagct atcatttcaa ttaaaaaggg aaactaaaaa 540  
atggtagaag aggacgagga gatggtgaaa aacaaccctg ttcagacaaa gataaaaaata 600  
caaatcaga tgtagcacia tataatagaa actggctgaa aacagtacac gctaacagac 660  
atgat 665

<210> 937  
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<212> DNA  
<213> Rattus norvegicus

<220>  
<223> Genbank Accession No. AI175486

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acgttggtct gctgtgcttt gtctaaatga acttttatga gccggctgcc atccagtttc 180  
acacggatcc tcttgccac aatttcactt gggaagacca aatcctcaag gatggcgctc 240  
tgactgctg tcagggtgag gcttctgggg cgcttttgct tatttttcgt acggtttttt 300  
cgggttggtc tgggcagaat cctcctctga gcaatgaaga ctacgtgttt cccactgaac 360  
tttttctcca attcacgaac tagccggact tggattttct ggaaagattt cagctgagga 420  
actggtacaa aaattatgat ggcttttcga ccaccaccga cttcgatttc ctttgccgcg 480  
gtgatgttga gttccgcag ctgcgccttc agatccgagt tcatctccag ctcgagcagc 540  
gcctgagaga tgccagactc gaactcgtcc ggcttctcgc cattgggctt cacaatcttg 600

gcgctcgagc tgaacatggc ttcgtcctta cggagcctcg tgcc

644

<210> 938

<211> 597

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI175508

<400> 938

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atcacaagcc ctggctggca cctccaacc caacacacct tgtccctttc accctcacag 180  
cctctccccg agacaagcaa acctaagtcc tttccaagc acaacaccca agtggtcctt 240  
tcccagtgga cagtgggata gaaaagccag cccaatccac agcaaggagg cagtgtgggc 300  
tggcaaggag ccaaattcctg gtcaggaaaa aacaaatgat gtaaaaatat gtgaatattt 360  
tctatcatag aatgaaaaac tgatctgcat ctaaaagtgc aagaggcgag gtgactgagc 420  
ccttcaccag acgccgcgga agtgacacag ccgtgggtta acttggtgaa ggaggctagg 480  
gtgtgtttac gctgacatag aaaattataa attacactga attagtatcc ataataccta 540  
tatacacaca aaccagttct aaaatccact gggtttacaag tgaaaacctt acaaggt 597

<210> 939

<211> 620

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI175513

<400> 939

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cccatttaaa aaggcaacac atagcatata aaaacctata ctaaacaaat aagctataat 180  
atggatacat gattgatgtg tctaaaatga tatatataca gtacataatt gtttaattatg 240  
tgatcagtag attgttctac atgattcctt catgcttcac tttcccaga aactgaattc 300  
tgaacttcct cttctaaaaa tggatcaatc aggttatcct tcgacatcaa attatatttc 360  
atcacaatatt tggtaaaccg gtgacataaa aatgtttcat tttcatattc atcaaatatc 420  
tgccgggtgat gaaaataggc atgtgagaat attctgtaaa tcctacggga cactgatcct 480  
agttttgcta cagatgatcc ttttatgtca accctgctgg gaaaatattt attgctattc 540  
agaagacatg cagcaccatc cagtgtgtgt cttgtataat ctatggcagg acactctttt 600  
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<210> 940

<211> 563

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI175566

<400> 940

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ggtactgcct gccttggatg acagggtggc gctcatctgc ctagtgtccg tcgtgtgggt 180  
cctgtggcca gggtcatttg gtttatttct ctacattttg ggagtgcctc agaacaactt 240  
aaaggaggag aaggtatccg cccaacatag ctgggtggtaa gatggactag aaacgctgga 300  
accggaggct gaggcagtca ggcgggtcaga tggacagtcc gaaggcactg acgatgcagt 360

acatgggtctt gttctcccat cggactgtgc agctccccgtc cgtggagctg tcccagaagc 420  
 aggaacttgc ggtgtgtaac ccagcaccat tcttctgcat gatcacacag gtcacaatgt 480  
 attttaaagg tttccccagt ttggtgagtt ggctcaaagt ctgttctaca acattagtgg 540  
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<210> 941

<211> 605

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI175590

<400> 941

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 atttttaagc aagttttacat ttctttttggc tatggttctg aacaattcat ctcatgatat 180  
 cttatcacaa tgtgcaaagt catttcacag cacctgtgac aatcatcaag ttaactctta 240  
 agcgtatcca ctgtcagtat ctcttcagag gaaaccgatc tgctttctat gaaaagctcc 300  
 atggtacatc tcagcatcgc acaaggccac cagtcacccg ccctcacagg aatcgaaaaa 360  
 gttagtgtga aataagtcca cataagaatt taatatctaa aaggtgaaat gctccttgta 420  
 ttaatgttag caagatcttt actttttcat cactaagaaa cactttaata gtttttagagc 480  
 aaaagctggt aaagagtcta gggagctaaa accgtacccc tgaggtcaag cttacagata 540  
 aatcttttgt aagtacttct caaaatatcc tccctcccat ccccaaattc tgtattgttt 600  
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<210> 942

<211> 446

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI175635

<400> 942

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 aaaagaatga cttatggctt aaaatagatt tttttttaac ctgacaagaa aaatgcagca 180  
 gacataaaa ctgagaggag aaaatgagg acatgtagcc aggtgttctc agtgctttta 240  
 tacttctatt tcaaaagtaa acacagtact aatcatcaat tcaattccag tgaataacaa 300  
 cctaaaactg tattaattaa tcggtgttga agtccaaaac caaatgacct ttcaacagta 360  
 ttaccaagta ggtaagtcca cgctagaagc taattacaat gtgaattctg accaaactaa 420  
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<210> 943

<211> 464

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI175675

<400> 943

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 cggtgggttc agtgatagtc cagatgggaa gtcttcacat aagtgaggcc cacacggccc 180  
 caggaacgac taggtgttct gacacccagt gcacacagca aggaaatgca tcaattttat 240  
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cccttatccc tcctcatgcc cacagtcagc ccaacactgc ctccgttcct tgggccagca 360  
caggcaggtg ccacctttgc tgcaatgggc acctggagta gctcagacgc ttgaccactc 420  
cagcccagac aagagttggg tccagcccct ctggggagttc atct 464

<210> 944

<211> 506

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI175790

<400> 944

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aattttaaatt cagttcatat ttacagatta aacatgaaat atctatgggc gccaaagcata 180  
ttgcacatca cagagagaga gagaaacatt tgtgcatctc agtaagtttg cccagagtggt 240  
ccaactctag acttttttatt ttgtagaaac acatttactt tttgtgcgtg taataaataa 300  
aaacgcagct tgtgggatgc tacttaacac taaaacaaaa tctcctgaaa aatattattt 360  
gtttccctct cagagagaga gaagcagtgga aacagtttca cagggtactg atatctgttg 420  
gttattcgca tccaaattca agggggacct taacctgagc cccactgagt cacagccaca 480  
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<210> 945

<211> 573

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI175812

<400> 945

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gcctgcaagt gtgtggggcc acataaagaa ggaacttatt tatgacatta aatgcacaag 180  
aaaaatatgg gatagttaac agttcgtttg gctgaggaaa aatgtcattt cttgcatcct 240  
gctgcttgct agtggaattg gaccaaaggc ggtagttaag gaaggaataa atactaaaga 300  
atgttgctaaa caaatggcca gcacagagtt ttcattttgtt ctttggaagg cccaagctga 360  
aacgcaaagt catctatgat cacaagcaca gtaaaacttca ggagaggtct gcaggagcaa 420  
gaaaatcaag cttgaaactt ctgatttgcc aacgaagaga aagaacatga cgttttcagg 480  
gagaaccaac ctcaacaagt cgaatcgtgg ctgtagggga gagtgagggt ttgcagctag 540  
agactttaa gaacagtgtg tgattaacca tgc 573

<210> 946

<211> 382

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI175833

<400> 946

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cacgtttgtc ctggttgggt ccagggaggg cctgcccagg gatggtggca ccaagaacca 180  
gggcagaggg atcagcagca cccccaggc ctccctttggg tgggtcacca ggatggggat 240  
ggcagacaag gcaaggacgg ggagaccaca tgctcatgca gacaggaggt taagagttag 300  
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382

<210> 947

<211> 523

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. AI175871

<400> 947

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tggctccatt aataccagga ggtccaacaa acgcttcact gtgagattcg tctcgcgggc 180
tgtctccatt tcaactcttta ctgcaattga gtgactcact gtgctgtctc tgtgccgctt 240
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ttgaatcctg ctttgtgata ggacaatctg ttttctactca acaagaatct gtgtaggagc 420
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<210> 948

<211> 621

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. AI175997

<400> 948

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actagaacat atacatacag acatacatag agaaagttat gattaaaaat ctaatacacc 180
ttaatttttta atgtattgca gataaaactg taaagaaaca agaaagaaca ttatagagaa 240
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ccatctatta ttagggaaac ttttagcagaa ggaaatacct ctccacctgg agtggatcgc 360
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tcacaattga ggaaatatta cagatattta ttactgaaga ttatttaata ctgccaaggg 480
gtacaagaat acatacatag aggtataaat atacacatgc atatatactg tggatgtgaa 540
ggtgcatgtg tggttgctca aatgtgtggg cacatgaaca tttgtgtttg catgcatctt 600
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<210> 949

<211> 574

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. AI176002

<400> 949

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ccacttccac cagggccagg tccaccttct cttggaggaa gacatggaaa gccatgagtg 420
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tgaggaagcg gaagtaagag ggcattggaaa tgtggctgtc atccttgaat tctccagct 480  
gctgatagaa gtgccagaag tacttggtaa agagttcggg gctgatgggc tttccgttga 540  
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<210> 950

<211> 549

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI176031

<400> 950

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tcagagtggg gaacacattt gtagaaggaa gaatatgaag gggtagctat aggagcagct 180  
gccaaaaatg gggatccccg tttcccttca ccccatgttt cctggatcct ttcctttctc 240  
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agggcgtgcc tccaaggctc actatctccc agaggaggac cccaaatgac cagacgtcac 480  
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<210> 951

<211> 450

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI176061

<400> 951

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gccctggaga aggcaactg cccagggaag aagtagatgc gggagtctc gccggcctgt 180  
gctatcttac tgcaactggg ttcctgaggg tctgagggc cttgcttcag tattgggcag 240  
tggaactcct ccagagccac ctgcaggcct ctgcgctgtg tctcgctgag ctcaagctct 300  
gtcccgtgta tgtccgctgt gccagccat agggccagg agatcagcag gcacttcatg 360  
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<210> 952

<211> 382

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI176130

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aaagaatgga atgtgaggac agtgctgtg ggtgctccc ttttgagcgc aggcctcaga 240  
gaggaccag agccatggct accctctctt cagtgcaccc tgctgacccc agggagccct 300  
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tcttttctcc tgccctcgtg cc 382

<210> 953  
 <211> 518  
 <212> DNA  
 <213> Rattus norvegicus

<220>  
 <223> Genbank Accession No. AI176229

<400> 953  
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 cagaagttca gttaatttag gtcataccac agtgctgact tttgtactgg caccacaacca 240  
 cacaggtcag ttgctcttgc tgggtggcaca catttgagtt ctcaaaatct agaattctgt 300  
 gactccgtga accattccaa ccatcaatca atcaatggga gctgccacag aaactactgg 360  
 ccaagaacaa caggcaagcc aatgtctggg ttcttcatct tgtaaacac agcttgctat 420  
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 accttatggc cccatgtttt acaggcacag gtatatgg 518

<210> 954  
 <211> 550  
 <212> DNA  
 <213> Rattus norvegicus

<220>  
 <223> Genbank Accession No. AI176247

<400> 954  
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 tgcaccaggg gcagctcagg ctctgcctcg agcttctgca ctacctgcac cagcttttcc 420  
 agctcatcgg ggcaaatac agggcagtgta gtaaaaccaa agtacatcag caccactgg 480  
 cctcggaagt cggctttgca tcgaggctgg cctttgtggg ccagtaggct gaagtcaccc 540  
 tggcccacaa 550

<210> 955  
 <211> 559  
 <212> DNA  
 <213> Rattus norvegicus

<220>  
 <223> Genbank Accession No. AI176266

<400> 955  
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 ctaattccac acaaaatgga agactctata atgtacccat taaactgcta aaaatagtgg 120  
 tgcggctaca agaggagtcc gttgagatcc ctagtgttgt cagggtgtga ccacaatcac 180  
 cgcgccagct ctgagccgga gaacctggaa gctatttcat actctggtgc aatggcaaaa 240  
 aaaaaggaat taaaaaaaaa aacagaagaa aggaagaaaa ccacaccaca acacaaggaa 300  
 gaattaagtc ctgaatgact ggcttcatca tgcccaccct ctccacccta aaatggcaca 360  
 aaagaaattg ctaactacac cctaaagact acttttgggt taaaacaggt aactgatggg 420  
 ctaggatggg aacagggcac gatgggaaca gggcgtgacc atccgataaa aaaaaaaaaa 480  
 aaccgtccct ttcacgtagg tgtgtacatg cttccgagca gacaggatcg ggacaccggg 540

gttcgatgtt caggaagtc

559

<210> 956

<211> 497

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI176276

<400> 956

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accatagaaa ctttctgaca tgtatgatga cttatcaata tgtacaactt caaaaccaa 120
tgcttccagc acaagcgaag tcatgctgaa cgtcccaact agaggcaagc tgatgaagct 180
tcctgtttgc cgtgtgagcc ttggcttgga agaacttaga cagttagaaa tataaataaa 240
accttcaatg agaatcacca aaaaaaaaaa aaaatgcttg taaaaatgaa atccagtcgt 300
ctggatctgg gaagtctgtc ctgcttatca gataccagca agcaaataaa actccatgaa 360
cgtccaaatg tcagcgggtc aggagaggtc ctgcagggtc acagttgatc tatcagaaac 420
catggcttcc taggtggccc ttaaggaatc atatgccatt tttcaccagc tcatgaactc 480
cgttctcacc tcgtgcc 497
```

<210> 957

<211> 572

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI176284

<400> 957

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cagaatagta taaatgttta tttctgtatg atttactctt ctgccctggt ttcacaacat 60
agaaaagtgt attttttgaa tagctctagt aaatataatc tttctacttt gggatgtaaa 120
tagggcttaa aaattctaga ccgaaccctc ccaaataat cgtagaagtg tgggtgatttc 180
gtgtggctgt tagcgtgtgt cagcgtattg atgcaaagtc ctgacacaaa cgtccttcag 240
ttagaacgc acagaaggaa agggacggat acggtaaaag cttcttaaaa atcaaaacta 300
gtagctttga ttgcacctc aaatttttac aagcaaaaca atcttatgca atgccatcat 360
acataatcta caaatataat aaaaattcac aaacattttg tgcacactgt atatacacat 420
cacaatgggt cgattagaat taacacataa catatacaaa atgaacaaag tttagggttta 480
gacaaaaaac ttattgcagt cttttgaaaa ataacttgat tagatattcc tttgtcctct 540
tagactaatt tacatttata cagagttgac tt 572
```

<210> 958

<211> 525

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI176294

<400> 958

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aaaaaaca aaagcacagg ttttatttct agctcattgg gcagggtctt gggggacttg 60
gctgggcagg gagcaggcta tcagcgggct gaggtggcc tctagtttac ttgccagcga 120
tgagcgggtt ccgcagcacc acaatgactg agtccccgcg caggaacatc ttggagatgt 180
agcggtcctt gttgacaggc ttggacttct tcttgccctt gccgctcttg gggacctcag 240
tccacatctc cttcacattt tccagcacca tgttgacgtg cctgtcaaag gccttcaccc 300
ggcccaggag cttcttggtt tttcgacagt taatgagcac ttgcgtgttg tttttgaccg 360
actgtgtgag caccgagagg ggacctgtgt tgaattcctc ctccctccgc ttctgcagct 420
cctctggggg catctcactc ttgggtttat tgaggagact catggtgaag gtttcgctag 480
```



cagatcactc ccgcctccaa gcgcgttgct ttagccctc gtgcc

525

<210> 959

<211> 672

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI176298

<400> 959

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aaacaggtac cagttttgat tttatttcat cgtattaaca tacatgacac ttcaaatga 60
gaaatgcaca agtgaacat tcaacagctt gccttactcc aagaacacta tattcatatt 120
aaacatttat acagtcttct ctctctaact ttataactgg tctaaacagt ttccagcatt 180
tctcacagag tctagttttg ctcatataaa tcaccatttt gcattgtccc aggagacttc 240
aggcttccct gtgcttacat gaggaacact aaccaccaca ctaccacaaa tgtgcctagg 300
ggcagccctt tcaacatggt agttgtgatt ccaagaactg ataggacatt agtgatgggt 360
gactgacagc tgtagtgtat gactacgcta cacggaagga accacagccc agagagcacc 420
tccctacatg acgtatggca ttaggcaatg tactgcccac agacactgaa gccaaatccc 480
cagtcttccc agaacagacg tactgttgga gctgctgctt cattctggaa ctgtctcact 540
gggtgtgacca gattttaaga aggtgggttc ttacgtactg agtgtgtgta cacaatggat 600
caaatttact gtgaggctct gagaatctaa tcacaggctg ctgaccagtg tccttggaat 660
ggcccgctgc ct                                     672

```

<210> 960

<211> 566

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI176319

<400> 960

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ctgggtgtca ggtctgaaat tttattaaat tggaaactat attaatatta gatcttaagt 60
caggcagggg tgggggtcat aggaagaggt ttggctgctg gggaaggagg tggctgggtt 120
tggctcctgc gactgtgaac cacgatgtca tcatattcat cgccttcac tctgttgtca 180
ctgtcgtgtg cactgctgct gttgctgcaa gggctaagct tatcatcctc atcctcgggc 240
tcaggagccc catgtgcacg gaggaggcgg gcgaggacag ggttgggccc gagcagggca 300
ctgccaaagt ggggtgcggc ccatacatg cgtgcggtgg ggtcagcgcc agctttgagg 360
agaagcgcca gcacgcggc tgccctggcct tctactgcca ggtgcagagg ggtccggcca 420
cacgtaggct ccggtttatt gaggtcggct ccagcatccc tgagcagttg gaccatctct 480
gcattcttgt ggtgacagc tacatggagt ggggtgtggc catcatagtt ttcagcttct 540
agctgcaacc tccaatcttc atcacg                                     566

```

<210> 961

<211> 646

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI176363

<400> 961

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gttggaatct ggactttaat tatatacata aatagtgata taagaatgag gagttctaag 60
gcttgtacat tatttccacg tgaaagattg cagattagtt ggctgtaat atggcatcac 120
ccaaaccagc aaaaaggctt aatgttttct ctgatgaaag ccagtttact atatccaata 180
ctgattctgc catttgtctg tagaaatact gagttactgt ctggagtttc caatgtttac 240
ctataactga ttataatggg tagagcgtag agttttctat ttatttccag gtgaactctt 300

```

cacatttcct ggcttctgaa aatgttgctt ccacaaatct tctacaacta tgtaccctcg 360  
 taatccccag tcatataact tctccccagt gatctgggca atagtgatgg cttgttggtg 420  
 gtaatagaca gaggcaccta accccatgaa gaaaggagga tacaccagct tctttatttt 480  
 tgaacctcta gcaaaaagga gtccaacaaa accagcaaaa ccaataactc cgagtcttg 540  
 gtaaaatcca ggaggtgcat tttgaagata gttatagttg tctacttccc actggacaaa 600  
 gtgttcacc ttgggttttag tatgggagta tatttcctga cacaaa 646

<210> 962

<211> 639

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI176365

<400> 962

aattacacaa taccaattta tttcaggaat caatgaatta tctaacagaa ttctagaagg 60  
 cattaatata attaaatact gaaagaggtg aaatacaaaa cagtatacat tttatgatgt 120  
 gtttttagttc tctaataattg tttggtataa agcaaatactg acttggtttt gacgaagaca 180  
 acttactact ctaaactgtg gctgtttcca aaacgccaac actgagtaaa cacagactca 240  
 caactatctc tgaatccaga cattacaagt gaatttaata tgcagtttaa gacccagaaa 300  
 tgaaaagtga aaacaaacaa aaacaccaca cacaacttgc caacttgatt tgtttaaaac 360  
 taaacttgga tatgtcaggg aggggttcaat agccaccaa gtcaggatca gagtccccag 420  
 gaaaacatac ttcagagaca ccaaagttaa aacctactaa actttgaatt gtgggtgggta 480  
 ctatttgtcc acaatcagca tgtcctgttc taatccatgc agagagcaaaa ggtatttata 540  
 aactaggaaa acaggctgga cgccatatct cagagaaaaga atagcagcct agcttgcatt 600  
 cttgaagcct taagttctat cccaagcaca agaaccaaa 639

<210> 963

<211> 540

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI176423

<400> 963

atgggaacag cacacagtga cgcttcacag ggctcctggg tttggatttg gaattgcaat 60  
 atctggtgga agagataatc ctcatttttc gatggtggaa acctccatag tgatttctga 120  
 tgtgctaata ggagggccag ctgaaggaca gctacaggaa aatgaccgag tcgcaatggt 180  
 taacggagtt tcaatggata atgttgaaca tgcttttgct gttcagcagc taaggaaaaag 240  
 tgggaaaaaa cgcaaaaatt accatccgaa gaaagaagaa agttcagatt cctgtaagtc 300  
 acccagaccc tgaccagtg tctgataatg aagatgatag ctatgacgag gatgtgcacg 360  
 atccaagaag tggccgaggt gccctagcta acagaagggg tgagaagagc tgggcaaggg 420  
 atagaagcgc aagcagggac cggagcctgt cccctcgtc agacaggcga tcagtggcct 480  
 ccagtcagcc cgccaaaccc accaaagtca cattggtgaa gtctcggaaa aatgaagaat 540

<210> 964

<211> 370

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI176456

<400> 964

caagtcaagt ttttttattt tattgtcagt tacatgcttt atagaaaaaa gtgtggagaa 60

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ccggtcaggg ttgtacaaaa aaaggctagg ttcctacgtt gttttattta caccattgtg 120
aggacgcccc cacttcaggc gcagcagctg cacttgctcg aagcctcttt gcagatgcag 180
ccctggggagc acttcgcaca gcccacgggg cagcaggaac agcagctttt cttgcaggag 240
gtgcatttgc attgttttga tttgcaggag ccagcgcagg agcaggatcc atctgtggca 300
caggagcagt tgggggtccat ggcgaatgga ggcggcagtt ggagatcaac gagagatcgc 360
tcctcgtgcc                                     370
```

<210> 965

<211> 675

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI176465

<400> 965

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ctgaggagag ctgcactggc cccttccctc cagtcgcacc caccagcta accccgggtca 120
cttcacacgc ctgtgggaac agacaaggga catacatcac agtggagagg tggcaggggtg 180
gtgggggggaa gcttgcagct gcacattgct gcagcttggt gtggccagat aggctcaggg 240
gcagtgcgcc tggatctgtg cttctctggt gggaagagtg cagtagaggc cactgactct 300
aatcagtgcc cctgaagagt aaggccaggg ccagggcagc acctgcttcc acacacttgc 360
ttagaattgt gcccattcctg gctggtcctc agctcttctg gcctctgcct gaaagcctct 420
tgtcagttgc tctccaaggg agcaggccac agccggcaac cctaggcact tagtacgtgt 480
ccgggagctg ggctccttgg agccctgtac aggaggcagg cccttggagc acaccatcct 540
ccattaacct gaggctaagc ctgcattccta ggactgactc tggggagacc agggccaccc 600
tttttcttga ggctgtgcc tgccctggca gcctgagaaa ttctaccctt ggggcttctg 660
ggagggggcag ggcac                                     675
```

<210> 966

<211> 590

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI176472

<400> 966

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aaaggcagag aacttttaaat aacactgtat gaaatccccg aacaatgggt gtatgaaatg 120
ttgcagcccc ggggccacag aactgttctc attgctttcc ctaaaataac actacaagaa 180
tgtgtcctaa gaaaatgggt gctcctgtgt gcagccccag gaaagcagtt taaatgaacc 240
gaggactggg atactcatca ggactaaaca cactcagata aaatcatatg gaaagtcttt 300
agagcacacc taaataaaga ggaaaatata atataaaaaat aaaatccaaa atgaatgcaa 360
taagatgggt aacattatgg gcatttttaa aatctacata atttctccag cattttcaaa 420
caaaaggaaa agacaggcta ctgtttctag aacttgcttg ctttttcata aattctactc 480
tcttctatga caagagtgtg gacataaatt ttaaattgaa aaaagaaaaa aaggaaaaaa 540
gcagccccta agctgtgtag tctattcaga tttgagctgt tcatgaagac 590
```

<210> 967

<211> 630

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI176473

<400> 967

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gtagaagaaa tatttaataa agaaatacag ttcaaatact taaaaataat tatgtaaata 60
ccaggtagac atatgaacaa agatgacttc tgagttaaata aaattaaaca gagaactata 120
ccaataaata agaaagtcac tggtgaaaaa cagtcaagat tttatttttc aatattatct 180
catttggaac tcctagaata attttctcca aatgaccact ctctgtgacc cagaaagctc 240
tggccagggc tcctagactt tgctgcattg gtcctgagac ttctagactg cattagtgtc 300
tctggctggg ttgaaaccaa atttctactg tcaccagaaa gcagctccta atgcattcta 360
attctgcagt caagttactt aacttatagg cagggctggg gtgagagggg cacttaaaat 420
aataaggtca ctctaagaat gttcttccct ccattctcgg ttgacacatg aatctacaga 480
gtaaatataa ccttcccctg ggtgcaaggc tcaacccgaa gcttctgggt ggccctacagg 540
attcagagcc aaggacactg cctaaaaagc taggctacag atgtagctcc aggaacctca 600
gccaatgagg ctttgccaac ctgtagtaga                                     630

```

<210> 968

<211> 416

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. AI176479

<400> 968

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aggagggatg cagctgcaga tggtggagca cgtcaggatc agaaaccaga atcctctatc 60
aagtctggag acgaggagca ttaagagcaa tgatgacgac agtaacaata gtgataatga 120
ccatgaggat gctgaggacc agggagctga tggtcaggca taggcaatga agcccaggca 180
gcagaagttc atgaagagcg tattgaacag ggaccagacc acatgggtcag gcacagagac 240
ctctctgggc atgttgatca cggtagttct gacagaagcc gatccgtggg gtgccccag 300
ttcagacacc tcatattctt ccttgattct ttcgtagttt ggggggtgtc cccagtggtc 360
agcgttcacg aaggcttgag aagtgtggtt catggtaccg agcaaaagca gcagcg      416

```

<210> 969

<211> 715

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. AI176483

<220>

<221> unsure

<222> (1) .. (715)

<223> n = a or c or g or t

<400> 969

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gactgactac aaagacttta tcaaattatt gaaaatgttg gcatttaaag tattcatgcg 60
catacataag ttacatggaa tcttcggggt gtaggagtac aaatacgatg gtacacactg 120
tgagcctggc agtgaagcaa atgaaaccag acttaaaaca aaaaaaaatc ggatgtccta 180
gtcaggcatg gctgaggcag agggtcagga gttcaaggcc atcttcagct acatagtaag 240
gtcaaggccc atgtcatcta cctgaaacac catctcaaaa aaatttttgt gtgtgtgtgt 300
atcttctttt acctgtagga caagggcaga gggggcacca tgtgggggtgg cttcattcca 360
ctgctcagat ttccccttcc aacctctggg agaaaagggc ctggtattcc cactatgtgg 420
aatcttgat atgggaaaca ccaagaacct actggaatat gtccttataa atatatttat 480
atcagagaaa acaaggcact ttggtaacat gatagctttc tctcctatgt gtaaatacatt 540
ctaggcagaa aataaaaaatt ggtagttcc tcaggccaat taactgaata aagttaatac 600
aggaacagaa ttgtcctcag ccttcgctga ggccccacta aagtgaacga ggcangaggc 660
acagaagcac ttctctgtgc aacacctggg cccaggctcg atgggcacca gccaa      715

```

<210> 970

<211> 645

<212> DNA  
<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI176484

<400> 970

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cggcactcca ctgccatcac tggagtcagt gcacctctct gaaacaaagc cagcgtgaaa 180
acccaggagg acgcgaggcc tactttgatt taaggtaaag gacaagtttt taatacagca 240
aaacagaaca caaaaagtaa acaaatcctt agaaattact agatgtatgt gtgtgtttat 300
ataattagga tcatcatcaa cattttaagc cattaaaaat caggttgcca ccttaccttt 360
tcttttggtg ctggggatat tcttggttaag gaaaaaata aaagatttgc ccagactctt 420
gtttgtaacc acctcaccca gctttctttt cactgtgcct caccctccac catccactcg 480
acaccagag tccaacctca ctccctcggc aggagcagcg ccagcactca ctgtggagcg 540
aggagagcag ctattctttc tagttctaata tctgtcgtgg actccgtagt gtgtgtaata 600
ctgaaagggt taggtttact gcaaagcccc atggcttctg ttttg 645
```

<210> 971

<211> 655

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI176492

<400> 971

```
aacaaactat tttattcttc agagtctaaa accttctgtg agcagcttcc ctattgtgga 60
gagagatcca gcccctcagg cctcaaactc gaactcgaag tactgagggt cgaagtagtg 120
gatgcggaca tagccgtctt cgccaccgct gctgtagctc ttgccatcgg gatggaaggc 180
aacactgttg atagggtccaa agtggccctt gactcttcca aactcttccct caaaagccaa 240
atggaagaac ctggcctcaa acttgccaat cctggtggag gttgtggtca catccatggc 300
ttcctgacca ctttcagca ccacatggtc atagtggga gagagagcag ccgagttgac 360
gggacgttct gttcggaaag tcttctgatg ttcaagactt gtggagtcga agagcttagc 420
tgtgttgctc ttggatgcgg tgacaaacat ggtcatgtct ctagacaact ggatgtcatt 480
gatctgccgg gagtgttctt taacgttcac caatacctct ccagacttgg cgctgtactg 540
gttgagctct ccgctctcgt ggctgcgat gatgcactcc cccaggggac ccaaacagc 600
actggtgatc cttggaatca ttacagggga tcttcatgta agggctcgtt gctgt 655
```

<210> 972

<211> 498

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI176540

<400> 972

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cctttgagct tgttttattg atattcggtt gtgaatgaaa tcttgtcacc ggtctgatgc 60
attacaacag gcttttaggt agtgtggctc aatgttgatc accggtttgc taactacact 120
atcacgacct ttgaagtgcc ggttctcaca ctggtgtttc cagtgcggac aggaggcccc 180
tttgaacatg tgacacggtc catccacgcc aaggtggtca ccctcctttg ccgtcctacc 240
tactgcttta aaaatacatt caaataaaaag ggtacgttac ttggagtgcac tgcacacgta 300
cacggcagcc aggagagctg agaacatgat gaaccagctc cgtctggaga ataaatagtt 360
tgaaatagtg ggactgaagt ttgctgcttg gggaccttct cgagcatcct tgggtggacat 420
aaggtgaccc tcgctcgatt caaggacaca tcttttgctg ggggaggggt tgttcgtgtg 480
ataatttcta gtacacag 498
```

<210> 973  
<211> 678  
<212> DNA  
<213> Rattus norvegicus

<220>  
<223> Genbank Accession No. AI176546

<400> 973  
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cacaagcctt gctgagttac aagacctagg ggaacttagg gttttgttct cagtactttg 120  
gaaaacaagc cacttgggga attcctgtca agttgtttta gcttggtgtt acttctaaga 180  
ctagtacatg cagaattaac tacagggaat gaaaaaaatt taagatgaaa cttaagtcac 240  
cttaatttgg tctactaaag gaatccagct caacagctaa acacttcaga ccacatagtt 300  
aacagtaaca gtaggttaca ttacgtctta caacaaacgt tctatcaacc tcttgagtca 360  
aacctatagt atcacagtat cacatgtaga aattttttacc ttcccctagt tttcatgcc 420  
cacagatgtt ttaaagtgtta acaaaaaataa acaaaaatca tggaaaatat attatcagaa 480  
ggaatgaagg taagcatcaa acacatagtt ctggtgaagc ctagtctact tcttccatgc 540  
gtgatgtgtc atcatctcct tccaggggtg gcatttcttc agttacagca gcactgggat 600  
catccacagt aggatcatcc tcatcaatac ctagaccaag cttagatcat ctgtagatcc 660  
tgtagcatc ctctgtgc 678

<210> 974  
<211> 575  
<212> DNA  
<213> Rattus norvegicus

<220>  
<223> Genbank Accession No. AI176554

<400> 974  
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gccatcattt attgtaaaca gacatgatta ttcagggaaga gaacaatata tttttttctg 120  
catttcttcc acacggtaag acagggtccc acatagccca ggttgaccct gaactcctga 180  
tcttcccacc tccacctccc aaatggtagg attctaaaca cactccacca tcttggttta 240  
tgtggtgacg gaagccatgg ctccaggcat tctaagcaag cattcatcca tctgagctgc 300  
ataccagtc tatctcccac ccactcttag aagagcatga atttatgccc atttaagaca 360  
ctggcttcgc tgaacctcat taccatgatg aggaaaaaaa aacctagaat ctcaaagact 420  
agcagtgcct tgtagctgtc atcatctcct ggccacggcc caggaagtaa gcatagata 480  
gaactagggt agttcaactg acatactcgt gctgtgcatt caatctgctg agtcagtctg 540  
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<210> 975  
<211> 590  
<212> DNA  
<213> Rattus norvegicus

<220>  
<223> Genbank Accession No. AI176590

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tctgatttac agagggaag cgaattccac agcactcatt ctgaacacac tttgaacttg 180  
aattctagtg ttctccgtgc aaaagcaaaa gactgtttcc cccttgcat caccaaacat 240  
gattagttaa aagcaagaca ctgcaggcgg attctgaagc agccagtaag gagctgtaaa 300  
cagttccttc agacagggtg aagccgcagc aaagaaaaga gtgtcagtag tgggtatctg 360

gaagcagagg agaaaatgtc agtgagcgag aggcttgtag aaggacagtc agctaggggt 420  
accttttgcta tagaaaagag aactgttagc tcttcactgc aagtttcaga ttttactcaa 480  
ttattaagcc tccatgctct gtaatatataa aacaaacaca aacaaaaatt acgtgatttc 540  
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<210> 976

<211> 655

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI176596

<400> 976

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cttatagtat ttatttttaa aaatattccc agcttgaggt tgaaacattt aattttgcat 180  
tccaaactct agaatcatga ttttcatgtg agcttaatgc agaatcacag caggaaaaaa 240  
aaacatttaa ttaatttctt ttatttgtca ttaaataaat aaaatctctg actgctacag 300  
gtctccttta ataatatata tcgaacttct attggaacca tattgctaatt gcggtattac 360  
actcaaaacg caaacaacaa aaatacggta taaaatctaa atgtgaacgt tgctgagtc 420  
taacatgtac attaaactaa ggttttaatg tatttttacc tttcaatttt ttgaaaagac 480  
accaaaaaag ataaaaataa atatttttct cttttgactg tttctgactt gaatgatggc 540  
tccaaggata cacacaggaa gcagctttgc caagtcagtc gctgcaaagg gcaatgaaca 600  
actgctacaa acaacaacaa catgggtcttc cttctcctct gttagggaaa ccgca 655

<210> 977

<211> 511

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI176598

<400> 977

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ctttctactc acacagaccc caggtgggaa gacctaggct gtcccttact ttctaccctt 180  
ggaagttgaa tacgaacaca tgggtcaaaga tgaagcagaa atatggaagc tacatgactt 240  
cctttagaca catatacacc cagagacccc agcaaggccc cgcccagaaa gtcagtgtag 300  
tgttttctca agggagaaga gaggtgacat cggaaataaaa atgcaaagct gaagaaaaga 360  
ccagatgac aaaccattat gtctgcttca tggagcaatc aggaatcctc agaggatgag 420  
gatctacagc ccagtgtatg acatgacacc agcacctgtc agtagaagcc atgacctccc 480  
tacagtcatg tctacacagg cacctcgtgc c 511

<210> 978

<211> 667

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI176616

<400> 978

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ctcctgggtc cctagccaga gtagcaaat tgaacttcta ttcaggtcag gactgctatg 180  
gcctgtgtgt ccctgcccag gacactcatg ctcagcctca agattggcca cttctgcct 240

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agatcctagg gaaaggtgaa catgagggag tcctggtagc actacaggag tctcccttct 300
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aattgattcc ctcacaaaat agtgctaggg acctgcaggg gctgggtcatc aggggtacca 420
tacaagccat ccattcattg gacagtgggg aaggcatatc tgggggttat cctgggctat 480
ctccacctca tctgatagcc aagaaggaag caaacttaag gatggcagcc caccacccat 540
tcacaggtcc ctggtaagtg ttggtcacca aggtctccac acactctggg cccggcgagc 600
tgtgggtcagg atgcctaagg atgtgggcac caaatctggc ccctcggcag gcacccgggt 660
tagttca
667

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<210> 979

<211> 591

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI176642

<220>

<221> unsure

<222> (1) .. (591)

<223> n = a or c or g or t

<400> 979

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tgcataaact gctcacacta gaaatacaaa catcgatgta gatgaacaaa gtgatgttca 180
gagccaactc tgctttgaaa ataaatcaca acctgaaaca ctgtgagctt tctcctgaag 240
aaccatagtt aatatattgc ttaattttac ccttgtataa tcttttcata tacacatatt 300
tcagatgcaa cttcatgagg aactgtacaa ataaaaccca caaatgacaa aggaagagag 360
acaggtaaat gtttgaagag atgggtcctc atcactgctc aataacatat ggggtggcgg 420
tgacgtactt attcaaaaat tgtacacaat tcactataca aatataatac attggacagc 480
tatgtaggaa tatacaagac ttaaaaaagg atctaaggca ttatgctagg ttttagcatt 540
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<210> 980

<211> 605

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI176648

<400> 980

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ttactacttc aagaatctct tagaacaat gttatttggg gttgaaatgc aaaatctgac 180
ttacaaattc tcattcagtc cctgtaagac aaagcacgcg tggtaaaatg gtagatcctc 240
aacaatacta agaaacccag cgtgagcgcct ccacctaaac gccgtgtgcc gtgctccgtg 300
cctttgggtg tgcccgcaga gtgtgagaca gtcagtctcc ttggacactg gcctagtgtg 360
cactgccata ctaagggcaa acaatgtgct ctgtttactg ctccaacact tataccagct 420
acacgagaga cagagaaata cccatgtgca cgtagagcaa acactgaacg ccgtagggccc 480
ctaaagtctc actacttcaa gaggccactg cagggaaaag acaaggtgac aggtaaaaaa 540
aatgagagct gtgcctgtgg gctgcacact gtccagtgtc ggaccagaca tgtttggggg 600
aaaaa
605

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<210> 981

<211> 604

<212> DNA



<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI176658

<400> 981

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tcaaattgac agaaagggag ggctggtgac ggctactggg gatgggtagc aagctgaagg 120
cttctacttg gctccagact gttccgactc tgggcctcca atttgggcac gggcctcgaa 180
agtgaccgga atggtgatct ccgctgattg tgtgactgct ttgggcagcg gagccttcac 240
cgtgagtgtg ccctcagggg acagggaaga ggacaccaag gtgggggtcca cacctggagg 300
gagcgtgtat ttccgggtga agcaccgaga gatgtagcca tgttcactct gcctttcttc 360
gtgcttgcca gtgatctcca ccacgccttc cttggtctta actgtgagct cctcaggagc 420
gaagtgggtg acgtccaggg acacgcgcca gcgatcggcc gtctgtcgga tctctgagac 480
accgctactg agttgccggt tgagcgcccg gctgaaggcg ggcgcggcca gggctactgc 540
tgcggggccc tcggcggtcg cggcgggcaa agggcgacac tagccggggc aaccagcgga 600
gctg 604
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<210> 982

<211> 567

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI176675

<400> 982

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cttagctcca ttgatacaac ataaggggtt ttacattcgg cctagatata gggagaggca 120
gattccctcg cctacagacc tctggcttgc aagcatctcc caccacaaga ttactctgta 180
tagtacatag cccttggtta gtagagggat ccaaattatc gttttcaggc ttacaaagtc 240
cgatacatte actctctctt tccttcacaa gtctaatagc aaaaactact ttttccatgc 300
cccaaagcca ttatcagtag aagaaaactc aggcaaaaca gagatggcag ttaaggaatg 360
gacagagtat tattggcaca tgcccagcta gtgacaaaca aatgcagtgc accatgactt 420
gaaaataagt cacattacaa ggagaatgaa aacaactgta ccaactaagc tagggagtg 480
gaagtggaaa ggggattgat tgagagttac tgggtttact ggtacaactt aaaagcagtg 540
gagggcaagc acttaaatec tcgtgcc 567
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<210> 983

<211> 559

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI176701

<400> 983

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aagcagggtc gataaggagc tgagtggaca gtctcgggct cagtgcggag acagcagcac 180
ctatgcgagc ctttgactg acccgcccct gctcagagga gctggctgtc actgagtggc 240
tacttcacat ccactctgca cacaacagtc ctggattagc tacgtggtat gctgtgggtca 300
ccctctcttt ggagtacaag ttcaggacat caaggtecac gcgtggacca ctatggtggg 360
aggtgactgc taagagccac aactcatca tgcccagcaa gtccctcagg tacaacact 420
ggtttcctag tcagcccagg ggaaagaggt cttcactgtg gaagagagga tttataagta 480
atctcaagaa agctgtgacc tgctagtggc cttggctttg tgccctctgt tggcctcttt 540
ccaaggctct ggataacat 559
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<210> 984  
 <211> 479  
 <212> DNA  
 <213> Rattus norvegicus

<220>  
 <223> Genbank Accession No. AI176739

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 aacatctgta tgtgcaatta aatactgtgt ctgttactgt ggtggcaca acctcaaaca 180  
 aacaatatac aagtgttctg gggttggatc aggggtcggg ggagtcccaa gttttaactc 240  
 tgtgggggtt ggggagacaa ggtgggggaa ttgaacgaat ggggaaatca atttattttt 300  
 cttaattctg tccatataaa tatattcatg aagacaaaa gagggaggg cagttgggct 360  
 ggtgatgaag tgggagaagg ggagggcata tccctcttaa ctctactcag ccaaaaattt 420  
 gaaacaaatt aatttcatgg tgggagaaga gatttaaaaa atgatagaag atgggacct 479

<210> 985  
 <211> 556  
 <212> DNA  
 <213> Rattus norvegicus

<220>  
 <223> Genbank Accession No. AI176781

<400> 985  
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 agcacactca atgcggaaga aaccaagtgg atacatggga gatgctgtaa attagggtcaa 120  
 gagcaggcta gggaggtctt ggtagtagag ggcttttcca gggcccaaga cagaccctgt 180  
 gctcagtgcc cagcaacaaa atgagaaaaa ggtaggtgtg tcagacatag acggtttgta 240  
 taatgtccaa ctaaagttag agtggtctca gaaatgcacc atgttaaata tttggatata 300  
 aacaacacta tctgaaatc aagtggagcg tgggtgtctt ttttgccaag ggaaagaagt 360  
 tagtttccag aaaggatgaa cattaagacc tttgtgcttc tgtaacagaa gttaaagaac 420  
 catggaacat tactttgggt tcaacaggat ggtgtttgtt caaggctgag agcctcaagt 480  
 gagcaattta gcagagtctg tatacaaaac gatttaccac tggggcacag agacttccct 540  
 cgtgccgcct cgtgcc 556

<210> 986  
 <211> 599  
 <212> DNA  
 <213> Rattus norvegicus

<220>  
 <223> Genbank Accession No. AI176810

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 taaaaatata ctgtgatgga actgtaaagg gaactctgac taaaatcctt tctttttgca 180  
 aaactcacc tgcttatctg catgtctttg gaagaagggt tgctaaaact ggatcctagg 240  
 tgggccaggc agagagaagt cctttaaacc ccagatgaaa ggtactggag aatgctcccc 300  
 cagctgacac taaatactgg agggcagcca tggaggactg aaggtgaggt cagagatgag 360  
 gtgcttagtg acagaaccca aggcctggct aagggtcctt ccatgtgaca agcgctttcc 420  
 ttgctagtgt taacagggga cagaagctaa gggcactaag gccagaggag aaatgtctgc 480  
 taagcaactc actgcccctg agacctctaa tatgtacaga tgcttaaaac agcaagtcgc 540  
 acatttaaaa gtcaaaaaaa ggtcaatggc tgcatttccg actcatgggc gaatctgtc 599

<210> 987  
 <211> 445  
 <212> DNA  
 <213> Rattus norvegicus

<220>  
 <223> Genbank Accession No. AI176828

<400> 987  
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 ctggagagct gaaatgtggc cctggggaga atgtgtatgt ttccagtctt gatgttgagg 180  
 gtcaccccag agtaaggaac tgacaggctt gagactgagg tgctccaagc ttcttgaggc 240  
 tctgaaaggg ggactgacta cgctcacacc ataagctggc cactggacct agagttccca 300  
 cctctgtgac cttgttggtg ctactgctgg gcacaatgga aaacagtcaa gccccctggg 360  
 tgaatcgcca gcccaagctt gtcttaccag ctccttccga aacaactcct tagcctcgtg 420  
 ccgaattctt ggcctcgagg gccaa 445

<210> 988  
 <211> 574  
 <212> DNA  
 <213> Rattus norvegicus

<220>  
 <223> Genbank Accession No. AI176836

<400> 988  
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 gcaaggggtg cgtggccgct gaggccctga aggacccca ggtgtgcaca gaccctcttc 180  
 agctcaccac acacgccatg ggggtcaaca tctacaagga aggccaggag gtggccctga 240  
 agccagactc tgagtaccog acatggctgt tccagggtga cctgggtccc cccaaaaagc 300  
 tagaggacct agaaccggag tcccagagag actggcgact gcttcgcaaa cagaacatct 360  
 ggcgtcacaa caggctgagc aagaacaaga agctgtaatg tgagtgtggg cacttcctcc 420  
 caggagccag cctgggtgcc gccagaacgg ggagaaccga gtccttcatt cgctcaccgt 480  
 gatgtgcagg cttacacac actaaataaa caaagatgaa aatgaagggc aaaataaagg 540  
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<210> 989  
 <211> 478  
 <212> DNA  
 <213> Rattus norvegicus

<220>  
 <223> Genbank Accession No. AI176839

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 catgcctttg aaccatgccc agccttggtg ggggtggcagc aggactagac tgctattctg 180  
 tgttccaagg ggtacctgaa agcaagaata gaccaacact ggcacccgtg ggttcctcag 240  
 gccaacgcgc tcccctctga gttcaccatt cattcaaagc ctggtcttgg ccgtcagcaa 300  
 accttgagac ttaaggtgct cggcgatttc tcatctcctt ggaggacctt ctctccctcc 360  
 gacctccatt ctgtactgct tgatcagtc agccatctgc aaatgaatat cacagggaag 420  
 agacctatcg taaccacgag aacacctcac ggagactcac ctctgtccga ctggtgcc 478

<210> 990  
 <211> 662

<212> DNA  
<213> Rattus norvegicus

<220>  
<223> Genbank Accession No. AI176841

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ggagaagggc agccacagag gcagagagcc cctaagccag agctactggg ggtatatggg 180  
gaagcaagaa gatcagggac ccatgacacc ctagcgtctc ctgcccagcc ggttgccctga 240  
tgcagggctt gagccatcta catggtgcaa cctgttgggg tggcccagga gcttccgtca 300  
cctccagcct cctggcatgg ggtgcccagc ctctccatcc caatatgggg ccaggcaggg 360  
aacagagtgg gcagtacact cacaagagca cagtcctctt agccaccaga ggttgccagg 420  
atactggggg acatggtggg gacgcccac accatacgag gaggcagaga gatggccgag 480  
catcacaagc acaaggtaag aaatacagaa cgagctagga ccacagcaag aactgcacat 540  
gcctggaggt caagccaccc tgctcaggtc ctgcatgtga gacggctgcc gtctgtccat 600  
ctggctgtgg gaatcaacac ccaggtcacc gcactgcaca ggataggggg tttgtatgtg 660  
ca 662

<210> 991  
<211> 498  
<212> DNA  
<213> Rattus norvegicus

<220>  
<223> Genbank Accession No. AI176901

<400> 991  
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gccccaaaag gcaggcgaaa gctgagacac cagtactcaa ctcacacctt ggagctgaag 180  
ggccagttaa ggtggctcta gccatacagc cccacctccc cttactctgc ctccctcagc 240  
tgtggcccat ctgggacaac ctggtccatc tcccttcggg cagaggctga tagggccctca 300  
ggcagggcaa aggtccctct acggatcttg ccaaagagca gggctgggtc agagtcctgg 360  
aacgggtatc ggccagccag catggtgaag agcgccacgc ccaggctcca gacatcagcc 420  
gctctgccgg agtaggatgg ccgggagctg agtatctttg gtcccacata ggcagggcac 480  
gcgtgcttgt cccacaga 498

<210> 992  
<211> 575  
<212> DNA  
<213> Rattus norvegicus

<220>  
<223> Genbank Accession No. AI176942

<400> 992  
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ggcatgggtc gtgcaggcag tattaccatt gcagaggtaa tgtctcacac aatctacaac 120  
actgggggtt ctaagaggct tctctctgcc tgggtgactt tagagagggg ccctcccttg 180  
ggtctgctga tccttagtca tccctcaaca tgaagatgct tcagttcaga ccaaacagat 240  
acaggagact acacccactc cagatcttat atctgtaatg cateeeette tatacctctt 300  
ctaagtcttg gagcaagtga tacatgtaca catctatctt cattttacaat tcaacatcag 360  
gctatatcac agatcactcg ctgattctca gcaattggac aaggtctgag tctctggagt 420  
aactaccacc cactgtgaaa ggctcccttt accactgagg ctggcacagc agtcataggg 480  
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acaatactag tagtagtcta cttactatgg cctat 575

<210> 993  
 <211> 435  
 <212> DNA  
 <213> Rattus norvegicus

<220>  
 <223> Genbank Accession No. AI176947

<400> 993  
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 cccacagacc tgtgggtcgg gacagcccat cttttccctg ggatatgaat gcactccact 180  
 tcgtcagcca gcctcccagg cttggaatct aggtccagac gcctggctgc agctcccagg 240  
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 tagaacagct gtcacactcc atggccaaca gagaaaactg tcctggcctc ggggagacag 360  
 ggaaaagcct agacctccgt tctccccttt cctgctgccc tggaagggca agaaagaaag 420  
 gtgtctcctc gtgcc 435

<210> 994  
 <211> 595  
 <212> DNA  
 <213> Rattus norvegicus

<220>  
 <223> Genbank Accession No. AI176963

<400> 994  
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 agtatctttt catgtactga atataactat tagcacagtg tcaaaaatgt tgaagacaga 180  
 aacaaaataa aaatctgtga aatgtttgccc actgacgaca ttccacaccc tattttattgt 240  
 ctgtacatat gggggagggg gagacagcca acttgaaagt gaacgggtatg acttttcctg 300  
 atccagaacg gtttgcccca catctgtttt aatcttccag tttagcatat ttgaaaactt 360  
 aagtctgtac tcgaatgcat agtttaaaaa aaaaatgaag cgagacggca gtttgtgcag 420  
 taatatctgc ctttcaaagt tcatgcagcc aagaaatgca atttttcctt tcaactcataa 480  
 atctgaatgc agtgcgagcgt catttgaaac catctacaaa atccacaaga ttaagcagtt 540  
 tgccaagctt aatatctaac agttgagcac gggagaaagt gaggaacaaa ggagt 595

<210> 995  
 <211> 550  
 <212> DNA  
 <213> Rattus norvegicus

<220>  
 <223> Genbank Accession No. AI176970

<400> 995  
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 ttatcaactg acctggacca tcactaccaa aagggtata gttttttaat aaatgtgtga 180  
 caatgcaaaa taaaataaaa acctgttaaa cacagagtaa actttgcttt aatggatata 240  
 gaaaggaggt gatttggtttt gttttcaaca catctgggtc tggcagcaaa taataatata 300  
 ggtagcaat gtgccctgaa aatttctgct ttctgcttgt acttatcact tgaatcagag 360  
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<220>  
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<220>  
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 <212> DNA  
 <213> Rattus norvegicus

<220>  
 <223> Genbank Accession No. AI177029

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 gcggtagaca acaccccagg cccattttat tagaagccaa agggcacaga agaatgttgg 240  
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<210> 999  
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 <213> Rattus norvegicus

<220>  
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 taaataactc ccagcccaa gtggcaaac ggcattggga cctgccatgt ggcaaaagct 540  
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<220>  
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 catcttggtc cttttccacc attttcagcc cctccagggc ttggaggacc cggggggcca 180  
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 aagcagctcg tgtgtagaac cagttctcat catatggggc aagctcttta tgtttggcca 360  
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<210> 1001  
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<220>  
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 aggcatcacc ctataaacac acgtatgacc acccatgcac acatacacac aacatacaca 180  
 caaagattat aatataaaca ccaagtgatg aaaaaaacac tttgaatgct ctaaatacaa 240  
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 tgcacggaag tagtttaagt tcagttttta aggaactatt aaaacatcct ttgaaatact 480  
 aatttgctgc actttacaaa cagtggaaaa gaaaaaaaaa gtatttgga tgttagacac 540

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<210> 1002

<211> 404

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI177091

<400> 1002

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atggaaccag aaacagaaca cacacataag agttattaaa agtgcaaaca tggagggcac 240  
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ggtcagtcct gtcttctcag actctccatt ggcctttcga tttttctgct ctttagacga 360  
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<210> 1003

<211> 594

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI177099

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ctctgaagca tgtttggata aggcaaaaat cagagctctc caaaagctga aagtttaatt 360  
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gtatgctttc agactgctta aatgctataa cgcacacaac aattttcaaa taatagaacc 480  
aatagttttg ctatttgaag aatattaggt aaaagatact atgtgacaca caccacaaga 540  
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<210> 1004

<211> 518

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI177103

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ggggcacttg ctctgaaacc tcaagcagcc agggagagca ctcggttaga gagcactgtt 180  
gccagtgtca gcagtgtctg aaccaacact gctgctctc tggtecaac atgaccagca 240  
gttggggaga gtttacgctc cccagaggag gaaacctttg cctctgtttc ttatacatat 300  
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ggacttgcta agagacaaac ccatgagccc cctgtccccc taacccttag gcacatacta 420  
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gaccagtgtg agtacacagc agacagtaca agcttcca 518



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 <212> DNA  
 <213> Rattus norvegicus

<220>  
 <223> Genbank Accession No. AI177105

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 ccacaaaagc agcctaggct ggtacattttt gattccacat atgtgggcac ttcaggggaa 420  
 aggagaggca agggtagcag tctggagaac tgctttaacc ccctctgctt caagatgggc 480  
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<220>  
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 aagaaaatat ttacaaaata caagttttttt taaattttta tcttttttgg ttttttttgt 240  
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 <212> DNA  
 <213> Rattus norvegicus

<220>  
 <223> Genbank Accession No. AI177122

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 ctttatcata aaatatatgg ttttaaactt tactcaaatt gaattttataa tccctatgac 180  
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 cattcgtcca tatctacaag acggcagcta gagattagga ttcaatactg acaatcaact 420  
 atcctacaag ccattagcat tacatcataa tgtgccatca aggcaacttt ttatactgaa 480  
 aaaaatcaaa ataaaaaccg ttatttgtaa actttatagc aaatgtaact cttcaagtgg 540  
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tatac

605

<210> 1008

<211> 616

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI177161

<400> 1008

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aacagtataa ataagttctg tagtatttac acttacacag aaactagccc aaatgggtgcc 240
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<211> 563

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI177181

<400> 1009

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<210> 1010

<211> 537

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI177341

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<210> 1011

<211> 556

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI177363

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<210> 1012

<211> 618

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI177366

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<210> 1013

<211> 501

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI177377

<400> 1013

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<210> 1017

<211> 521

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI177638

<400> 1017

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<210> 1018

<211> 429

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI177790

<400> 1018

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<210> 1019

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<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI177869

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gacgcgtgcc agctgaagtt attgtacgtc actcgctgca cttccgggtc gatggcattg 240
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tcacggacca tcacgtatat ttttccggcc aggatgttgt cgcagtcaaa gcagcagaag 360
tgcttcagat gccaattctg gttttctgcc tgggtatact cattgctgaa tatcagctgg 420
caggaggaga aaaacaaaac ccgtcaggca tctctctcct ttaccccgca ggaactcacc 480
cagctcctcc tgatggccgt ctaagcctac aagggcagat gccttcttga gggctgaata 540
tttgaagatg gtaacgctcag gcttg 565
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<210> 1020

<211> 647

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI177885

<400> 1020

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catgtgtaat aatttatcaa aataagtttt cccacaactt ttccaatcac ctctgaaaat 120
cctgatctga cagtatacca aataaagctc tggacaagca cctcctaaag cttggaagaa 180
cgcccggcac gtctcctctc tcgcactcac tgcactacga aagactaaag agaaatttgt 240
tctgaaagggt gacttgctta gtacaagagt tgagtccaag aagttaatgt tttagtgcac 300
tttgctccag ttttagccaa catgctacat tttccttttt gctgttgctt tgttttaggg 360
ggaagtgggg tgaggaggtg cacaagtag agttgaagat ttccactgtt ggaaaaagag 420
aggactctgc aagcaaaaact ggaagctgcc ttgtacctta agacctgaac attttaagac 480
agaagctttg caaaacatta cacaattttt tattattaaa tgagaaaatc tcatttgcta 540
catcgtcaca ttgctagtca agagaaatgc tgcagtgatg aagaaagtca atgttggtac 600
aaccaaagtc cttatttcta caacattcat ttacaaagaa ataatgt 647
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<210> 1021

<211> 395

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI177911

<400> 1021

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aaggggggtga aaggtaaga ttttattgtc ttcataacaa aatcagctta gaactggatc 60
acttgccct ttctcttctt gtcacctcct agttcaaaat gcttgcatct cttaatagcc 120
agcatcctct tagatctgca gttgggtcga acgcactcca gtctcagcac aatcttcttt 180
gtagtttttag ccttttttgcg gaaaatgggc ttagtctgcc cgccgtagcc actctgtttc 240
ctgtcataac gccgctttcc ctgggcatac aaagaatcct tgcccttctt gtactgcgtc 300
accttggtggg gttggtgctt cccacatttc ttgcagaatg tccggcgggt cttaggaacg 360
ttcaccatgt ttgcaggagc gctaccctc gtgcc 395
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<210> 1022

<211> 558

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI178025

<400> 1022

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aaagaaaata ctttattaca tcatgaaaaa ggtatccaac aactagattc atacttgctt 60
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gaatctataa aaaaaaacia acaaacaaaa aactgaaagt ttattcatta gactgtatgt 120
gggggtcatgt tccacatggg aacagagagg cacaagggtt tctaagtatt gcacagtctt 180
gaaaaaaaaa aaaaggaggt gggaggagaa gatcacatga tactgggaac gtctcacatt 240
atgagaaaact accaagaaac attcgaaaag aaaaccctct gtttctacag tagcttttagt 300
ctgcagttct tggaaatgact attccattga agacatctta gtaacaggaa gcttcggttg 360
agcaatccca tgtgcaaata ttaataggaa aatatataaa ataatgcac tcttgccatc 420
acccccggga attcaggacc gtatttttga gaactgtttt gtttgacact cgggttaagct 480
gtgagtttgg cctgaagctc catctctgct gcctgcttga gcgcaacgct caccaggagc 540
tgaaatccac taaaatcc

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<210> 1023

<211> 566

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI178027

<400> 1023

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ggctcctgcc atctttttta ttggtctggg ctgtgggctg ggggaggcag gtgggctcac 60
atctttatgc aagcagcaag gagacgggtc acatgctcag gagactccag gaaggccttg 120
agcttgggtc gggctttgag acgcgctaca taggcggaga gcagggggaa gtctttcaag 180
taaccaggga acaggagctc taggttcaga agtaaatcca gtaggcggta gtcggcgaag 240
gagatctggt caccaacaat gaagcattgg ccacccttgt tctggggccag aagagtttca 300
aatggcttca ggtgtcctgg aagctccttc ctatatgggc ccttgtcctc cttacagata 360
tgagatagtg gccatgcaat gcgcctgaac acgtcttcca gtccgtcgtt caccatgtcc 420
accagtgtct cctcttctgt gtctttgccc tagagcccga aggagtggcc cagggtgccgt 480
aggatggcat tcgattggta cagagtgagc tttccatcct ggaacttggg gatctgccc 540
aacagacagg aagccttgaa tgtgcc

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<210> 1024

<211> 475

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI178073

<400> 1024

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cctgtgatga caacttcacc agtcctctta aaagcactgg ctccgaagga agcattctga 180
ggtgtaactt cagaaacaat gcaaggtagc cctgggcccag ctcgaaatca cgctttctgt 240
ccagcatcac cccgatcata ctcaaaaagc tccgcatggc ctctattgac ccgcccgcct 300
caggagacaa gttccgcagc tccgtttcaa tcccagacgg gcctaactct ttcagaaggt 360
taagagcccc ttcatactga ttatttttga atccttcttc aagtttcaag tagaaatttg 420
atttttgagc caaaatccca aggtttacca ccttaaactg ctgggggtca ctggt 475

```

<210> 1025

<211> 599

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI178214

<400> 1025

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```

[illegible]

<211> 660

<212> DNA

<213> Rattus norvegicus

 $\langle 220 \rangle$ 

<223> Genbank Accession No. AI178231

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acactaatac	aagctgttcc	taatacattt	tctcatttct	tatgatcaat	gcttttaggg	120
ccttgtttaa	caagaacaaa	atactttcta	atagaggaaa	ttaagaggta	ttatagaaga	180
gttgtagaaa	acatgaataa	atcagaggta	aatattgtga	tttttcaagc	aaagaaactg	240
atataacaag	tcacctacaa	agcaacacaa	tgacttgta	cttagtgcca	tcgagtccaa	300
ggttcctggt	gtttctttaga	ccagagtctc	ctaaccgac	agcacacatc	caacactcta	360
acgtgactac	aaccacgaga	caagctctca	cgttgtagtt	caggcttgct	tcaaactcac	420
tgtgcagctc	aaactggttt	caaaccctat	atcctctgct	tctgctcaa	catctcaggt	480
gcaggctatc	agacgagctt	gactaataaa	aggaacacgt	tctgtcacca	cagttactgc	540
taacaatatg	caagcagtta	agtttccac	atagatgata	ggccatgcc	aactccaaca	600
tactaaatca	gaaaaggcag	gcattggcag	acagtgattg	gtaagagaac	tgttacttcc	660

<211> 488

<212> DNA

<213> Rattus norvegicus

**<220>**

<223> Genbank Accession No. AI178326

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aatgcaagat	tttgagccat	gcaattaaat	tgtaaataaa	aaatttcaaa	actgaaaatc	120
ctttgctatt	taagggctgg	aatgtttcag	ctttttaaag	gaaagcagag	atgtatggta	180
cagctccctt	gcaagagggg	attcagattc	acagttaaca	tgaaaatcat	gtagcagacg	240
tgtgtggagc	attcttcgta	cactggtttg	cagcagtgac	attcacacag	atttcccagc	300
gtcctggtaa	gcccggtgtc	gcagccttac	cttcccatat	cgtggaaata	caagttcgca	360
catatacaca	gcatgatgat	agaaaacaag	atatagtaaa	tgagattcct	aaatttcggt	420
tctaagtctc	ctttgcgata	ccagtagata	agtatgcagg	cagtaataact	actcaaagag	480
atgcagac						488

<211> 552

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI178483



[illegible]

<211> 552

<213> Rattus norvegicus

<223> Genbank Accession No. AI178491

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ggtggcactg	ccctggcccg	ccctatcact	accaggcaaa	gagcccaaaag	tcttacccaa	120
agtttccttc	taagctgctg	ggcacacacc	atgttgatac	cagaagagag	agcacgatat	180
caaaccccca	tgaacacctt	agtactattg	aacaatgaca	ctgtcataaa	cagtaaagag	240
ttacagaatg	cagagtgaca	cgtcgcaatt	acatgagcac	agcttctttg	cgtatactct	300
aagctacagg	acaggatgaa	cactgcatct	ggctcatatg	tgatatgtgc	aggagaaaaca	360
aaccacacag	tatacactgt	atgtgtatgc	atccttaggt	tctgaggaca	atgtagcggt	420
gaataaaaagt	ctagtgaatt	tgccacttgt	cctgctccag	gacagttacc	gtcaaactca	480
acctcactag	acttgaatgg	ctacaaccag	cttatgctcg	cacatttacc	aaacagagag	540
aaaacttaaa	aa					552

<211> 586

<213> Rattus norvegicus

<223> Genbank Accession No. AI178507

acaataataa	aactttttaat	gcacagtcaa	cmetaaagatg	catataagca	tgatggaatc	60
tttgctcaca	ggcagcaaaag	agggttagaa	tttaacttca	aacmetaaagtt	cgggttgtgc	120
atttaaaaaat	cacaaaccat	tggagttgaa	gggaacmetaa	gaaaggmetaa	acaacaatgg	180
aagtgtcagt	gaccataaca	atgtgatggg	ataattaaag	aaaggattca	agtattgtaa	240
agttcttcag	acatgtcttg	gaggtttgtg	catttcccat	ctttgcatag	tmetaaaaaa	300
agaaagaaag	gaaggaagaa	agaaaggaaag	aaagaaagaa	agagaaataa	gmetaaggmetaa	360
aaaagmetaac	acatcacttg	gmetaaactcc	agcactctat	gtgactcctg	ttgaaacatg	420
cacctatggt	actgctcact	tagctggtag	aagtaggtct	aattcagtggt	gttcatgcac	480
tatcccggtt	gagcaatgag	gtcagcgcac	acctcctcgt	cagtgtcgca	gtmetaaagtag	540
agcaggtgaa	gtgggaactt	gggcactcact	tgacactctc	gttggg		586

<211> 552

<213> Rattus norvegicus

<220>  
<223> Genbank Accession No. AI178527

<400> 1031  
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acaggtaatt caaaagtcca gagttacttg ataaactgga aaatattttc tctgtagaaa 180  
atagtaaaaa tgataacatt tcccactaag cccattttaag ccaaataaga gctgaattat 240  
acataaatat tggatagatt gtgtgaccca aaagaaactt ctcttgcttt atttgaaaag 300  
ccatattttta tttaaattgt gtcaattgaa attcttttcc tctttccctt cactgtttgg 360  
ttttccgcag atcatttttt ctatagggtg acccattaat tcaaaattca aaagggttta 420  
gttttaggct gtctcttgg aagtagagcc agcatgtcct tctaccatct tgaaatggcg 480  
aattcttacc caatagtga atgttttcatt aaatcatgcc catattttatt acaagccaga 540  
gagtcgtcaa ca 552

<210> 1032  
<211> 603  
<212> DNA  
<213> Rattus norvegicus

<220>  
<223> Genbank Accession No. AI178531

<400> 1032  
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tccaaatgaa atccatatgc tagccaacta cagggttcaga aatgactaca acaggcaaaa 120  
accttaaaaa ccagtatcag cctttttaaa ttaacagaaa taaaatgcc ttagtattta 180  
agtatatatt tgtaacttaa aagaaaactg gtaaatgtcc atcctgtgtt ctgcagaagt 240  
ggggactacc caccaaaggg taccatgttc tttactgtgg taaagacagg attctctcat 300  
cacttctctg ctttttagtat aaattcta atgactgacaga tacattacac ttagtaaatg 360  
caatgtttgt gttttacttt ccagaaattt agggaaaatt tacagaagca gatatcaaaa 420  
agtgatttaa tgccattaac aatcaattca aattttaaga gaataactaat catatttcaa 480  
aattccctag tctataccac actcctcccc tcccataaag ctcaggggaac atggaagaag 540  
aggagtgaga gactgtaaga gtcagaagtc caggaggcat ggataaactg acatctttttg 600  
ggt 603

<210> 1033  
<211> 503  
<212> DNA  
<213> Rattus norvegicus

<220>  
<223> Genbank Accession No. AI178533

<400> 1033  
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gtcccggatc ctgggggtccc aggcttcttg actcgccaga catcatgatt cacacattcg 120  
caccgtcagt agatcctcca ggaatgcagt tggctgtcac cccaccatca ccgccccgat 180  
acccgacatg gcagtagaga tagtagagc cgtcctgagg cagcgccagc ccatgggtgc 240  
gggagaactg cgcaccgggt ctcagaaacg cttcttcttg gctcgccctc cagctgagcc 300  
cttgcccgt catccaagcg cctatgaggt gggcagcagg aagctcgggg ctgaagtgcag 360  
tttctgggtc ccccaatggc agctgttgaa cccctggatc tagtatagaa tccacagctg 420  
gggacagggt ggtcacccat gcagatgcct cccgagaggg ctgtgcaaca aggcgctggg 480  
atgtgggatc tagattcctg gaa 503

<210> 1034  
<211> 574  
<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI178573

<220>

<221> unsure

<222> (1)..(574)

<223> n = a or c or g or t

<400> 1034

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agagtgaact cttgcctgcg ggttggttg actacgcca gccactgagc tgcctcaacc 120
agccagggat ctatgaggct gacttctgtt ttcattgatgt caccatatgt agtatgtatt 180
ttgtctcaat aaagcatttg taccgatggc tctggaggca gcggtgctga ggatgagctc 240
actgctggga gtcggtctgg aggaccact ggagtgaag ctgggttggtg ccttggacta 300
gcttgaacac tgtaggcaag taagtcattg acggcacctt ctgcctcaaa gtgttacact 360
ggaccaatgg cagtgaacat gtgttcattg ccagacattt tggacattgc taaaatgctt 420
gactgtctga gatctttaag gaaatgtatt actttaccct nccagcttag gctgaattta 480
cccaagtatt cctagtcccc tagtcccagt aacacactgc cctccaatcc gtcctgggta 540
cccagggagg aatgaaagaa aggggttggtg acat 574
```

<210> 1035

<211> 635

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI178602

<400> 1035

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ctgcgaaggg acattaaaaa tacaactaa tttacaaaa taattgtatt ctgagtatta 120
tgtacaatat aatacatattt acattacata tggggctttt atacataaag atgagatatg 180
atztatgggt actggaaatc caaacaaaat ttgaacagaa catttctatg catacaaaca 240
caattgctca gctgtgaaaa tcaaaaccat acataagtgt gggtattaaa aactaaaact 300
acattcacct gataataaca gaaaatgaaa ttgcttttat tattttgaaa gtaccacaca 360
cagattaact gtggccatt tcgatgtgtt aacaatatcg acgatctaaa ctaaaatatg 420
tgctcatttc ggggaaaagt ttccaatttg cgttttcttg taaaggatgg atattattat 480
tatttatagc cattagaatg ccttggttcat aggccaaagg aggtcaattc tgggtaaata 540
gtaaagccac taagggtggg gtgcctatca tagtgctata gatattttac catatactct 600
taaaaataat catattaaac tgtagctttg catgc 635
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<210> 1036

<211> 438

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI178629

<400> 1036

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ctcctaagac tgaagtagcc ccaggtccct gactctgcca gctcctcagg gccgggagga 180
tgtctgcccc gcagtgatca agagtggcct ctcggtactt gtgcagcagg tctactgacgt 240
cagtgtcttc cactttcacc caaccgtctt tcttcatgtg gtacatgttg acaactcctc 300
cagaatagct gtctctgtgg gtagcataaa caatagctct tcgggcaagg tcataggcct 360
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cctcgggact gaaatcctgc cggtagccac tgtccataac cccgtaggca taggtgttcc 420  
cgctgcctgg ggaaaaaca 438

<210> 1037

<211> 501

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI178635

<400> 1037

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ttgtgagtag aaggaacgga acagcatttg gatggatgaa gacaatttca aaagtgtgag 180  
cacctctgaa aagatttcac ccatgtgttt ttgtttcctt gctgatattg aggggctttt 240  
attcttgggt ctatgtttca ctagaaaagt gggatattag gatatttttc cacgtcccct 300  
tagatttcta agaaagagct caaagatatg tatcacctag caagtgacgt ttttcaacat 360  
gtcggaatcc aaataattac taciaagagc aagttttcaa ataccagaa aatttaattt 420  
acatgttcaa aatgtatgcc cgtgatggat gtttcaatcc tgtgtcatca aatggatact 480  
aaactggtcg taatgaaaga c 501

<210> 1038

<211> 487

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI178734

<400> 1038

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gtgaatggaa tctgaatgtg gtaaggacat ggacttgga aacataattg aacatcgtga 180  
aattgcagtc tatgctttct ctggtctctt aaccagcta tctctcagcc atctcgcaca 240  
ctagacatcc tgactctacg tacacttttg tcatatataa tggtctcctt ctgactgaaa 300  
tgtaataagt taacaggatt tgtatctaag gggcttttat ctggggtgtg tattgccaga 360  
agtgtgcccc attttggacc acataaaaac tttggcccca aaggaagctg gctgccatct 420  
ggctgtggta accgtgaggt ttccgagggg cccctgggag cccccacagg ataatttttc 480  
atccggg 487

<210> 1039

<211> 587

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI178736

<400> 1039

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ttgccaatca gaccagtga ggtcctccgg gttagggcag gagactgact ggatagacca 180  
ttagaggaag gagccatgcc tgagaaccag agccagcccc gagtccaccc tggtcacggg 240  
cagctgaggg agctgtttta gagtatctat gaccatgaac acagtacaat ttgaatatcc 300  
caaaaaaaca ttattgcagg agccatggca gggcaggcaa aagccccacc agtcccaagg 360  
gaaacaggcc accactacag aaggggacca caagttgatg atgttcaagg caagtcaaca 420  
tcagggtcct ggggtccatct cattggaaaa gggccttcgt gttcgtgttg ggacggagca 480

tgtgatgctc tgacgcaatg ccgtggctga agctccagca cagcttacaa gtcaggaagt 540  
agtttgtgca gatttcctta cacgtttcaa ttattagtga cccctat 587

<210> 1040

<211> 563

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI178740

<400> 1040

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tgaacatcag catctggcag tatttttggg aaaaaaaaag tgactaaaat gggtttaaag 180  
tgattaacac tattaatatca catctaatat ttgatactac atgattcaat acagctatac 240  
gatacaatta tacaaaatgt gttaacatca aagaatacaa ccaaaattaa gatagcaaac 300  
aaaacctata taactttttt ttgtacagga aaaatacttt tgaagtatgc atgtaactgc 360  
ccattctttt aaagaaaatc taccgcaagc aagtcgtcac cctccagaaa gtcacacagc 420  
attactaagc atatcccaa aaagtgtaca atatgcacac ttggaaaata caaaattaaa 480  
aaaattgtaa gcaacagggtg agcttcgtat ttataagaat gtgaaaagaa gtccccattt 540  
tagcactggt gtataaagaa ttg 563

<210> 1041

<211> 656

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI178741

<400> 1041

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aaccttgaaa cagttggagg gaggctattg ggtctactga gggttagggt tatctgaatt 180  
caagggttca gtgtggtcag ggctgaggac acttggaact aggctcaaga ttgaccagg 240  
tattaacctc cgttccaagt tgtgtggggg ctgaaaaatc tttagagctc aagatttgag 300  
gatgtcttgc cttagggcct agctttgaag tatggaagac catcgagtcc cacatttggg 360  
tcagggggag atcttggggg ccagttttga gattggccac agatgctgtg gcttagaaat 420  
ccagtttcaa ggctggatgt aagcgactga gtctcaaatt gagggctgag gaagcctgtg 480  
gtccctcggt gacgggctag aggctaagag atgaccaggt tggggctgca gtgagcagtc 540  
acagggtgct tttcttggtg aggccagagg gctctaggca cctgttttaa tgactaggaa 600  
aggtttggtc ttgggtgtgg ggggtggggg cctctagatt cagagtataa ttgcca 656

<210> 1042

<211> 542

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI178746

<400> 1042

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acaggctggc aaggcctcct gggcaaggag gcaggcccag agcctgcgtt tcttggcaca 120  
cacacacaca gagaaatgaa taaattatag ttctgacact tagagacaat ataaaaatgc 180  
atataaaatc caacatcagc taatgaaggg cataaaagcc cccaagagcc acctctttct 240  
tgccaactgg ccgggggggtg tgtgggtgggt caggatggat tcagtgtcca gaaaggctag 300

agacagtgat ctgggggtgtg cttcatgtct tagggcctct ggctcccat cctacatagg 360  
gcctttataa cccatggcct tggggagagg gaaatggaca gagggcatgt tagagcgtct 420  
gggcaggggg cagagggagt tttgatcacc gatgggtcaag cacagcctcc gtctgctcag 480  
ctcgaaccta cacgccacac cgaagcccag accggcgggg gacaccgaag actttgcctc 540  
aa 542

<210> 1043

<211> 485

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI178756

<400> 1043

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gttaagcctg agtttcataa ggatagtaaa cttaagggag ccacgaagcc tgaagacaaa 120  
ttcaggacag gaaagggcaa aacagccagt tccctgggtg ctttcctcac tggaaaatca 180  
aacatgtatt cttactccaa cagtcctgtc catgtttgca tgtcaccaca cttagcaaaa 240  
cacaacgaga tcatatatga ctagaactaa gtgcatagaa cgctgtcagg atcactgctt 300  
gctcttcctt tttctcagtc tttttttccc agagctttca ggtgctggag tcttttgtgt 360  
gtcttctttc actggtgaca caggcagttt caaaatgatt tcatcatcgt cattgatttc 420  
catcaactgt gatttccgtc tttccaaaaa cgttggtgta caaactggcg taggatcctc 480  
gtgcc 485

<210> 1044

<211> 687

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI178784

<220>

<221> unsure

<222> (1)..(687)

<223> n = a or c or g or t

<400> 1044

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tccgagctag gcccagtcag tccttggcat attcacagta gcagccctag ggcttggccc 180  
atgggcgggc agtgaggagt ttacagaacg gccagcccag cagtgcagcac agatgtcctg 240  
ggctgtctac cctccagtcc ttggtccctg tcttgacata ggaagaacag ctgctcagtg 300  
caaggggcaaa aagatcccat gccctaattgc tacctggtgc cccagggtcct ttgtgcgggtg 360  
gcttcaggca acccggaag tcctagagaa tgctggccag ctctgtggag tctgtatccg 420  
agcagcctga gctgctggct tcatctcgta aagcctgcag agctttcttg ttctgtcgcc 480  
gcttctctc atcaatgggg tacagcttga agagcagcag gccagcagg atgaggatga 540  
taggagccat ggtcaccagc atcttcagtg taaacttgac ctcttctggc tgggagcacc 600  
cctgcgtctg gtacttagca nagtcgagac tgagggtaga gacaccagc gagactccag 660  
aggcaaaactt ggtgaagaag acataga 687

<210> 1045

<211> 562

<212> DNA

<213> Rattus norvegicus

<220>

Figure 1 consists of 12 histograms arranged in a single column. Each histogram represents the distribution of the number of non-zero elements in the vector  $x$  for a specific value of  $n$ . The values of  $n$  are 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, and 120. The x-axis for each histogram is labeled 'Number of non-zero elements' and ranges from 0 to 120. The y-axis is labeled 'Frequency' and ranges from 0 to 10. As  $n$  increases, the distribution of non-zero elements shifts to the right, indicating that the vector  $x$  contains more non-zero elements as  $n$  increases.

accattaat	cagatttatt	atcaattcaa	tttgaaggca	attttcaacc	tttaataagt	60
tatattcata	tctgagattg	tttaagcttt	ctcatggaga	aaaagaaacc	aggcagcagc	120
tagagctgca	acccaagttt	tcttctgctc	atccttaggc	atttgtactg	tgtggaccga	180
gtgactgggg	ccaggtcttc	tttctatgaa	acagagtctt	actgtgcagc	cctcgctggc	240
ctagaactca	ctgtgtagac	cggctgctgc	ctcctaagat	ctgagatttg	gttgatattg	300
tcctctagct	gctctggctc	gttactgggc	agctgatgca	caattttcttc	tttghtaagat	360
gccatggctt	cttcatagag	aacttgaaaa	atctcacact	gaatattatc	ttgtagtttc	420
ttctcgtgat	aacccttgt	ttcaagtcgt	ttgtacaata	taccattgtc	tgtcctcaac	480
acgaacacta	tatggaacca	gcgttcagga	aagaaatcac	aaccgtggta	atcaacgata	540
acgccgccct	ctgtcatctg	aq				562

<213> Rattus norvegicus

<223> Genbank Accession No. AI178828

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ggcctagggt	aaatgtggct	tttatttcct	ctcagggaaa	gaagtaaagg	gtggcctttcc	120
caggtacccc	aacctaaagg	aaggtgggtg	tgtctccagag	gttggggcta	gaattgccag	180
atcattccga	cagactcctc	tgtgtccact	cgctggcgct	tgatgcaggg	agggtgtagg	240
tgagagtcac	tcccctggag	tagcagctca	gtatcaacag	aggcacaagg	aggtatgtgc	300
tggtattcac	aaaatggaag	gcagagcagg	tgccctgagt	gaggagcagg	actgggtggc	360
cgatccacac	ccagtgtctg	ccgggtacaa	ggcctgactg	ctgtggctct	cctcccaagg	420
gccccagggg	cccagaagca	tactgcgtc	ctatggctgg	tcccttaaag	gtccatctca	480
aactgtgact	cttcaccacc	tgcccgttta	tcttcggggc	tgctgtgcag	atggctctgg	540
ctggcctgca	tgggaggctc	atcgctggta	gggctagtga	cccctggaat	ggttggcaag	600
tcc						603

<213> Rattus norvegicus

<223> Genbank Accession No. AI178850

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ctttttggtg	ggagtgggtg	gggcatggaa	gggatagaga	cggatggaga	cagcccagaa	120
ggagcgacag	ctctacctac	ccctgctgct	ttcctggcca	gccaggttca	aggtccctca	180
ctacaccttg	ccacgctgct	gtagatgcat	ggcgtggccg	agtcaggctg	gcctcgcagg	240
gagagatgga	aagaataaag	cgctacaaag	gctaaggact	tgacgcctgc	tctccagaac	300
tggattccac	acaaagcctg	caagttcata	ctgagggaca	agccaggctg	ggccaacagt	360
qgttqaagag	qctaccctqa					380

<213> Rattus norvegicus

<223> Genbank Accession No. AI178868

<400> 1048

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tttttttttc aaactttttt ggtgttttta attccaaact ctaatgtgat catcctttac 60
ctataactaa ttcttcaagt aaggtagttt ttgttttggt tttcttaaga gggaggggag 120
gcagggatga ggacagtagt tgagtttgga gagaggcaac ggtgacggga ggccctggga 180
gtgccagatg gccactgcat ttctctggaa gcagtcgaga accaagatgc caatgcaatg 240
gttttctctg agtcgcaagg ctttggaag gacgagtga gtggcttggg agcaacagag 300
cctcgtgcc. 309

```

<210> 1049

<211> 340

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI178872

<400> 1049

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cacttgatg aagttcaacc ttatacaatt ttaaggtggt atgtttggta gtgtatctag 60
aatctttaaa aagttgagtt tttggaatgt acagtatatg aggtaaaatc aagattacat 120
taagaattgt tttctcctct gcactaacat tgcaatgagg ctcaaattggc aagtacacta 180
ttaaatgaca ttactatca aaaataggag ttcatgtgaa ttactatgaa taacataagc 240
cactgtgtgg cacatttcac catttttagac attcaactct atagaaatct ctgggctctg 300
acactcataa ctcatattgta ctgccaaatg tggcacttaa 340

```

<210> 1050

<211> 633

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI178944

<400> 1050

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tgtgtttttt tttatttttt ttcttttttc tttttctttt tttggagaca ggatctcact 60
atgtagcccc taggtggcct gaaacttgct gggtagacca ggctagcctt gaacttaaag 120
aaattcacct gcctctgcct ctggagtgcct gggataaaaa gtatgcacca ccatgcttgg 180
cagtcttgga atgcctaccc cctggccacc atgacatagg tagaaaagca gactgaatcg 240
ttcctcgctg gcaggtgagg gtctcacaga tgaactgaac cagtagatgt tctgcacctt 300
ctgtgctaca ggaagagaac tcagagctgc ttccaaggct ctgacgctgt gtgcagggt 360
agaggccaat ggtataggag cgaccagtag ggttgtgaat agaagaacag actggcgctg 420
tcaccgcccc ctcgtagcac accttcttag aattgctgca tcgccagaaa cgcacacaga 480
tgtttctggc ttcatgcacc gtgatgggct gcttgatggg gaagaagatg gggaaccatg 540
agaacatgcc aggagagtgg gtctctgggc ggatactcag agtgatgtcc cggtaaagca 600
cagtttcaaa gtagcctgca aagccatgaa gca 633

```

<210> 1051

<211> 570

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI178968

<220>

<221> unsure

<222> (1) .. (570)



<223> n = a or c or g or t

<400> 1051

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cagcaaagca agttaaaaac ttcactcatc aaataaatga taattttaac aagaacttgc 120
taaagaaacc tcatcacaac aatgcttttag ggcctgatca ctttaagtcca cagggccatt 180
atgaatttaa atctgcaagc cgttttccta caacaagagg gaggaacatg tttccttgac 240
tcaggtgaca cagaaaagaa atcatgattt ttttcttttg ctgtaacagg cagacattga 300
tttcttggtg tgatcaggaa agatggaatg actgttggcc ttctcttgct gctatcaaca 360
gtttgtcacg cattatctca atgctcgagt agtccggtaa ctttaagatag ttcacacaag 420
tcattacaga tggtaagaag tcatctgggt tttctgttga ttcaaagtgc ttccgcacaa 480
tcgtcagagg tggattttaa ctccgaaatc ctccgactgg caatcgtggg ctaccagtca 540
caaactggag aaacaacctc tcctcgtgcc 570
```

<210> 1052

<211> 445

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. AI179093

<400> 1052

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cacaccaga gtacatgacc tctgtacaaa gaaaaataga aaaggctctgg acgatcacat 60
ttgtttacgc tacataattt agaatgaaca ctactgggtg gggttttctg ctttgtaacc 120
taatgttttt agttctgctg catttggtggc acgagatctc attttccttc cttacaggta 180
aggacattgg cagcagcaac attacaattt aaagggttaac aggttacaga tgtcctaact 240
gtactgcgaa agatcttttc ctctccccc tcccccttca ctctctccat gacttcctga 300
aggaaatgta ggtacttttc catgggggtgg cccgttttga gagagcacaa agacaaggta 360
acatagtctt agttccctca cactcatctg acaagctgct tactgacact caagacagtg 420
tcttaggcct aggacagcca ttttg 445
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<210> 1053

<211> 467

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. AI179099

<400> 1053

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ggaccattta aaagagaaat ttattgcctc aatattctgg gggcctggaa gttcaacatg 60
ttagcagggt gctttctcct gagggccctt tccttggtgt agaaggccat ctttctctgt 120
gttcacatgg tcttcacttg attctcacct ttgtcctgat ttcttctgag gatagcagtc 180
atatcagatt aaagcccatg ctaaggatgt cacttaggta tttatttccc aagacaccaa 240
gacagtcacg ttctgagggt gtgggaactg ggacttgaac tgaagaacta aagctacagg 300
atttgcctct taagagaatg gaaatgtatt tattgagata atatacttaa tagcccaa 360
gaacaaactt actgaaaatt ttaaccataa ccgagtaaga tgtataatag attcaaagt 420
cttataaata tatattatga tattttgaag tgccttttcc tcgtacc 467
```

<210> 1054

<211> 429

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. AI179100

<400> 1054  
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 aaaaaaaciaa aaccctctca aatgcttaag atgctgaacc tagagaagga gctaaggatg 120  
 cagccaaaag gaaatgattt aaggacagag ggtgaataaa gagagcaaag gtggaagacc 180  
 atgatgtttc aaagctggca aggttggcct caatttcttt tcttctgtct ggatactggt 240  
 tctgcttcta ggtaccggag cccaactagc ataccagga ttgagaaact tgctaccatc 300  
 aagggtgcca gcacaccaac tgtgggagcc gctgttccaa atacaaacia ctccgagagg 360  
 aagtgtccca gggcaaggag gaatgtccac agtgtgatgt gataaagtgt tttgttgtgg 420  
 atgtcaatg 429

<210> 1055  
 <211> 632  
 <212> DNA  
 <213> Rattus norvegicus

<220>  
 <223> Genbank Accession No. AI179144

<400> 1055  
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 gaccctgttg gattgaacia gtcccagtcct catgtccacg tacaatactg aacctgcata 120  
 tgcagtttcc cattctcatg tccacgtaca atactgaacc tgcatatgca gtttccttta 180  
 tcaagtacag tgctcacttt tcaggtcgtc tctaaaacat aaatacaaaag gaaaggaagc 240  
 cactcattaa aaactgcac aaacacaagt attttaagt tgaatttggt gttcctggaa 300  
 attacacatg cccaaagaaa acaaaagctg gaaaagcggg tacacttcct acatgagtgg 360  
 acagttacia caacaatcgt cttctgtaat gagcattttt aatttatcac caactactct 420  
 gaacttacta agagctgtag tcagagtcag aagagaagac gcagggagag tattcctttt 480  
 ggaggacaga gtccctccag aatcatcacg gggaaataaa catcctgttg attccgggtg 540  
 gcaaaaacat taacgttggt aatctcagtt catgttgatc gtactgagcc gacctaaatt 600  
 tcttccttgt cgtcattctt ctaaatcaag tg 632

<210> 1056  
 <211> 261  
 <212> DNA  
 <213> Rattus norvegicus

<220>  
 <223> Genbank Accession No. AI179167

<400> 1056  
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 gggcgagggtg gattcccat agccggattc tccccctccc cccgaggggtg gctaattgcta 120  
 tctggggatg tcttcacagg gaagagagaa ctatgggtgg gctcctgcct gaggtctcca 180  
 ccctcagccc agcggacata tcacaggcag cttaaaaaaa aatcctaaaa aaaccaaacc 240  
 acacatttaa atcctcgtgc c 261

<210> 1057  
 <211> 566  
 <212> DNA  
 <213> Rattus norvegicus

<220>  
 <223> Genbank Accession No. AI179206

<400> 1057  
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 ggctacatta tagtgaacia ggcagtgttc tacatgacia aaatcaaaac aagtttctaa 120  
 ggtgagtacc gacaacaaga acacaggact agatatccat ccagctacac gtgataaccg 180

atccaaccac gagcttatgc aaggtaagta atttctatga caccaagtgc caatcactgc 240  
 ccgtccacac tgcattcccc tggcaggatt ctgagaacat ttccataaca tacagatttg 300  
 gcatggctcg gaaggacaga aaacgagAAC tgaactaaaa tcattgtaat aattctgtat 360  
 aaagcatata tagtacgttg tcttattagt tatcaacaac aacagaaaga tttaaaaaca 420  
 aagaccacct taattatggg gagaacctca tcatagaaaa atgttcatca tttgtatggg 480  
 attggcagaa acggataagt tttgttgggg atgagggcag ggaagacata taacttgaat 540  
 ttattcatct aaatttgcct cgtgcc 566

<210> 1058

<211> 541

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI179236

<400> 1058

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 gcagcagcct ctgctgtagg cgcgcccacg gaaagcggct tggagtgtct gaccagcaga 120  
 agcctcttcg gaggcggcct acgtacacac tgagctccag aaggagaagg atcctaacca 180  
 agggccacca ggaagcagca agcaaggcct agttggcaca aagcagatat ccagtggccc 240  
 gggccctggg gatcaacctg gggtagatg ggaaatgaac acagattctc tgcaatcaga 300  
 gagtgcagcc cgaggccatc cctgagtctg agctggcagc gggatatgaa tttcctgttt 360  
 cctcttctac cacttaggaa gattttttaca cctccgcccc cagctctggg acccaaagga 420  
 agtccctatc acatggccat aggctgcgag gctgtgtcag ggctcggcag gtctatcaga 480  
 ctccaccagc cacataacca catgggatgc tgaactggga aggagcggga cacagggcgg 540  
 t 541

<210> 1059

<211> 547

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI179264

<400> 1059

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 tacaactagt tagtgtgggt agttcctggg catcctaaca ggcccgtag caaaggctgg 120  
 ctctccccta ctcttttta tgtgaataga gacaggagtc cttgggctga ggacaccca 180  
 tatectcaca cctaacctga atacctgcc tgtaagatga tcgaagaagg gctgtgggta 240  
 gagagccatc ctccactttc tgtaagattt gcttgcagga gaaggtcgga gcctgagaag 300  
 ggcattctctg aagaaagatc aaggagtggc cagtgcgggg gttgctctgc ttgagccatg 360  
 tggttcaggc aggaacatt gctggggggc aggaatgtat gttctgagct ctccaactgg 420  
 tttgtgctgc ccattggtag ctctggctgt agggcagaca gcttcggctg atgctgggtc 480  
 tcgctgggca aggcacgaat cttgcggtgc aacacaacat actcagcggg cactcctccc 540  
 ctgcat 547

<210> 1060

<211> 493

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI179300

<400> 1060

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accactgct gtctgattat gtccataggt caggggtgtt ctgcttacgc atttggtgcc 120
tcataattaa gttcagctaa cactagggcc tatagtttgc tgtcagttag accaggtctg 180
gtcttgacag taaagccacc atcaaaagct gcattgagaa cttcatccag gcagctcgct 240
gtgacaaaac ttagatcctg tttgacgttg cttgggatct cctcgaggte cttttcgttc 300
ctctgcgga ttagatgatg cttcagtcct gctcggtgtg ctgccaggac tttgtcttta 360
attccacca ccggaagaac aagtcctctc agtgaattt cccagtcac ggctacatct 420
gagcgacaa gccgccact gaagagttag gcgagacaag ttactatggt aacaccagca 480
cctcgtagcg aat
493

```

<210> 1061

<211> 632

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI179381

<220>

<221> unsure

<222> (1) .. (632)

<223> n = a or c or g or t

<400> 1061

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ctgactaccc tattaaggaa ctctcttctt ccccttgcc ttacggacct cttctatcag 120
gtcttttaga tactgaatct ctttgccgag agaactctgcc ttctctttca gagcctcgct 180
cttcttttct agctctttac actcgccagt gagggcttcc tgctcagccc tcttcttctg 240
gcggtaccta gtagctgctg tcttgttttg ctccatcttt ttcagcttct tatccaactt 300
ttcagctctc acttttagctg tcacactaac tccaggtggg tcataagggt tgggtcgaga 360
accacgagga acacctggag aaggcagact gtctgggtggg gccctggagg tgggaagggt 420
gtgttgggga gagcccaggt aggactcagg gtcatacag atgccactgt cactatcaga 480
gggagtgtct tcctccttta cactactgaag ggtagagta atataagcag cagagtcagg 540
cttcctatct ccttcagaga tatcaacctc acttcncagc tctaaactaa aggaatgatc 600
tggagtggaa gacagaaacc tggggaacaa gg
632

```

<210> 1062

<211> 450

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI179415

<400> 1062

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aagtcgcagg cagggcacgg atggggaagg tctacatctc gttcagggtcc agcaggggtct 60
gggccagcat cctttgtgta cagagatgct cctctttggt gcacttcagc ttatcttcca 120
agtcacatca ggtcttttcc agtttctgca aagcagtggc aaggcgctcc tgggcgcggt 180
ccagctcctc ttcaaccagc tggatcctgc ggttcaagga ggccacctca gcttcagcct 240
gtccccgggc ccgcctttct cctccactt cccgctggag gcgctcggcc ctctcctccg 300
catcatcagc ctgctgctgc agaacctgga tcttgcgctt taccgcctcg atgggtggtgc 360
tcccggccat ggtgcctacc cagctgcttc tggaaatcag gttcctacct cctccgctcg 420
gcgtttagc cgcttttcac cctacttccg
450

```

<210> 1063

<211> 490

<212> DNA

<213> Rattus norvegicus

<220>  
<223> Genbank Accession No. AI179498

<220>  
<221> unsure  
<222> (1)..(490)  
<223> n = a or c or g or t

<400> 1063  
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caagtagtca aaaatacata aactctgatt ttatagactc taaaacatta aggtacaaaa 120  
agtaagtaac atctacaatt agcagaacat ttatgacata taatttcatg tataggaaaa 180  
caggtagaga ggactacaaa taaattataa cctgaagaca tactataacc tgaagacata 240  
catataaaaa aagccttggg ttatttatta gaatctccca gaaaggtgaa tgatgctagg 300  
acactatcaa caatgtgagc acaatctgac agcattttct tccacttcta ggctgtgcta 360  
ctagcttaag aggcactgga cacagccagc ttcttcaa at gatccatgaa cacctgcagg 420  
ctgacatcgt ctgtcaggat gggcgctcca gtttctctgn cccaagcata caggttattg 480  
tgtgtctgag 490

<210> 1064  
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<212> DNA  
<213> Rattus norvegicus

<220>  
<223> Genbank Accession No. AI179519

<400> 1064  
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agaacattta ctctctcat tctgtgtaag gagagcaatg cagcaggtgc gtgacaaaaa 180  
tattatacac tagatatggt ccaaagtcac tccgtttgct tgtttaatga tgttcaaatt 240  
tcattggcca gttcttccgt ttctgcagaa ctatctccgt taactgtgat cttcatatcc 300  
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ctcgtgcc 368

<210> 1065  
<211> 322  
<212> DNA  
<213> Rattus norvegicus

<220>  
<223> Genbank Accession No. AI179539

<400> 1065  
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caaattcctc aggacagcag tgacacaaga gcatccagga acttgctccg gtcctcagct 180  
ttcagctcaa ttactgagag gtcaaagtag ttgtgtagag tccgggagct ggtgctttct 240  
gctgccttct caaatgccc accaaaaaag ttctttctat ccgagctatc agtctctgga 300  
gggatgccca ccacagtcac tg 322

<210> 1066  
<211> 564  
<212> DNA  
<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI179570

<400> 1066

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aaggggatta gaattgtggc tgcaagacct cacatgtaca ctgccatcct tagatgtcag 180
ctggtcctaa gtggcaccct taactcacia atgggactca cactgaatgc ttgggaattc 240
cttccttttt gttgggttttt gtttttaaat ctttctccaa caaaactaat atcaaaataa 300
gccaaaacaa ggaccgcacg ggtccacttt aaagtcactg acacttttcc tcgtagggac 360
ttcacacagt gaacttcctt gactgctcac agtgatgcga cgtgaagagg caaagtgagc 420
aaatgcatac cctttgtaat tgataacct tcttaagctt cactttattc gtccatttga 480
tttttggcct gaattaaatg taaatccctg cctcatcatc aatcaggcac ttccctcctg 540
agcatatgga aacacacagc tagc 564

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<210> 1067

<211> 613

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI179610

<400> 1067

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acaaaaaata ccattacact ggtagaactg gggaaataac aaaaacaaga cagaaacaca 180
agacagaaaa tctctgcaca ctgatataca agtggccatg acgctggggg aaagcagtca 240
tggtcagtca acatggacgc cgactacca gggcactggg ctcagaacag ccgcctctac 300
cgaccacagt tctggggctc tgttgcagga tttggggctg ctgggtttcca agttcaggcc 360
cctggctgtg cttttggtga gggaaatgtg ccaggcatct ccttccattc cagagagaca 420
aaggaagaca caggaagggg gcgaggaacc caaaagctt tcttagaggc ccaagaaaag 480
agagccaggc aagattctcc cctgcagaga gaaggctaca tgagacagag ttcacagcct 540
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aactgagtgt tga 613

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<210> 1068

<211> 531

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI179709

<220>

<221> unsure

<222> (1) .. (531)

<223> n = a or c or g or t

<400> 1068

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tcagacatgc ttaaataatat aaaaaacgac agtctctaat cccttgagga gaaggcggaa 120
cttcagtgtt cctcatcggg tcaggcacct cgccttggtg caagcatttc caggcggcct 180
ttgagtgtca gttctgcagc actgcttctg cagcgcagcc cctgccggct ggctcgcggg 240
gacaggctat agcccgcggc tgtcagcagc acagtcctcg ctccagtggg catctcgctt 300
ctctgccacg agtttgatga actgtgagtg actggcatac agcttgagct ggctcgctgat 360
gtccacccac ttcaccttcc ccgcatcatc tccagcctcc agcgtgaggt tgtccatcgt 420
ctcncctgtc tcatcatggg agttcactgc ctcaagtctc atccatgcgt tgtcagtgtt 480
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<210> 1069  
 <211> 444  
 <212> DNA  
 <213> Rattus norvegicus

<220>  
 <223> Genbank Accession No. AI179750

<400> 1069  
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 cacgaatggg ccatgacttg aattttctga aggggtgaca ggccatattt ttggatcacc 180  
 tgccactgct ggctgatctg catctctgtt ggtttggtt ttggtggtt gtttattttt 240  
 gagacagggt cttatttatg tagtccattc ctgtttcaaa cttcctgtat tgctcagggc 300  
 aaccttggtt tcttgatcct cctgcctcta cctctcaagt gctgggataa catgcttaaa 360  
 ctggcccagc tgaataacat cttttgttta aatcctgtca gccacctgga agatagatac 420  
 cttattagtc ccatttgcag atga 444

<210> 1070  
 <211> 577  
 <212> DNA  
 <213> Rattus norvegicus

<220>  
 <223> Genbank Accession No. AI179857

<400> 1070  
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 atcctaaaaa tgacaggtgt ggacgctcct caggaagggg cgagcgtggc tggcagctcc 180  
 tgtgcctcag ttactcagaa gcagttctgt tgcagtctct acatcccatg attttgaaga 240  
 ccaggggccc tattactgcg ttcctatcaa aacctatagc acagagggtt tctatttttt 300  
 tgggtgtattc tggactagac actggtgctc cagcatacac gtgtgcccac agtcgagctg 360  
 tctgcttgaa catttcagga ttttgtttgt actgatttgc tactactgca tcttgggggt 420  
 catctggttc tgcagcggcc agcagtgtt gcaatgacaa taatactgtg cgcagagtca 480  
 ttgctgctgc ccattgatct ttcaggatat ccaaacaat agcccctgtg acggaactaa 540  
 tattagggtg ccatatttta gtgataaacc ggacctt 577

<210> 1071  
 <211> 458  
 <212> DNA  
 <213> Rattus norvegicus

<220>  
 <223> Genbank Accession No. AI179870

<400> 1071  
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 ggagagtcag tgcccagtac caaaaaccga ttcattttta attaaaaatt tcaaggttta 180  
 tataagttta gctgtaaatc tattatcaaa agtttttaag catgtaagt gctctaaat 240  
 gacagggttt taaactgcaa atctgccccg agtgggttaac ttataaactg gggccctttt 300  
 aaattttaca tattttaaatt atccaagaag cagctgattt caagtcctgt tcaaccttcc 360  
 ttttctgctt ctgctctggc tgaaaactga gaaggaacct gagctttagg tagctggaaa 420  
 attcctcccg ggtgtggctt tatgtgaaca tttaaagg 458

<210> 1072

<211> 568  
 <212> DNA  
 <213> Rattus norvegicus

<220>  
 <223> Genbank Accession No. AI179953

<400> 1072  
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 ccacaactct tattttattgt tacagaatgg cttccaacg acattcttgg caggaagaag 180  
 tgtccctgt tggatttgtt gactgtcatc ttgtggacaa cacatcaggc agaatgacaa 240  
 tgctaagggt caacttgtcc tagaaaagtt acacattgac ctaaaactagt ttcttctatt 300  
 ttttccaaat atcaacattt ctgtttccag tttagaaggc aatgctgaaa agggaggcaa 360  
 acagacattc aaagtagaaa aactcagttt taatcaacag gatttagagt ctagaagttt 420  
 catcggttct ttgaaaacca ccccatcttg tttctgcacc attaaattgt accatggcag 480  
 tgaaattccc aagcaaactc atgaagtctt ttgatactga ctgccacatc ccacagctac 540  
 agagtagacg agctgggggt ggagggggg 568

<210> 1073  
 <211> 597  
 <212> DNA  
 <213> Rattus norvegicus

<220>  
 <223> Genbank Accession No. AI179979

<400> 1073  
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 ctcaaccagt ttttaaaatc tatttggaac attaaacatg ataaaagtag aaaaaaatc 180  
 tcttatgaag tcctctacga aaggaaattg tgacaagttc ctgttaagac agaaaccatt 240  
 ccatctccaa gggagaacaa gagaaacatg aatatgaaca gaaacaccta ctctctgggt 300  
 ttatcctagg tagaccaact ctttacagtt attttctgtc ttccctggat aaataagaat 360  
 cccttaacag cagcccgga attaaccaat tccagtgaag accctgagat ggctgccttg 420  
 cagcaggttc ttgccttttg cagtcaacaa catcttttac aaagcacctt gacttatggc 480  
 aggcgtgaca aaaccaggtg aattagttgt cccagccag ggcccgcca cctttagcct 540  
 tctaggcgcc actgttgga aaaggagcca tcacagatcg ccatgccgac gtagccc 597

<210> 1074  
 <211> 667  
 <212> DNA  
 <213> Rattus norvegicus

<220>  
 <223> Genbank Accession No. AI179988

<400> 1074  
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 aacttctaca gggtttggtt tgtgaaccac atattcaata gccaagagag ggatattatg 180  
 cggctcta at cactcttatt cagacaggtg tcaagcctga gaaaagaggc tccaccatta 240  
 tgccagaagt ggaaggctgc cctttgttat ccgtttccag ggcaaccggc tcacaaaata 300  
 agaagaacct cccctgtctt atgccagggt ttttgttgt actgtgctgt gaattgtatt 360  
 tgcttcaaag tgtgggacat ttcacagggc gagaatggc aagtagcagg cccgaatgcc 420  
 tagatcaatt gaatgagcgg ggagtctaga aagttccct gccggctggg ggcccaccct 480  
 tgctgggcag ctccctctgg ctacacagt aattaacaga ggattcaagg ccggggccaca 540  
 actttgaaac agctgcagag aattctccct gctctcagca gcagtgcag gaagatcttg 600



agacagattt gcattgtaaa ctgtggagct gagacagcta cgagacaact gatcatacca 660  
ccagggt 667

<210> 1075

<211> 597

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI179991

<400> 1075

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acacttctaa gataagaagc tagatgcagc ccttgctatt aaaagctgta cccaaacaaa 180  
aatggacgtt tagtctaagg cccgggcagt ggactataga atgtcagttg tctcccaatt 240  
atgttttaaat gcagaaatag caataatgtt gaaacgtaca ttcattaagt attagcattt 300  
agaatataca tggctaatta ggtgaacatt ccgagcagct acggctcagg agagcccaca 360  
ctagcccagt cacgaacagt gagctcagtt cagagaacaa aagtgtcaaa cacaggataa 420  
aggtaaagta agagacaggc gagtggcctg cacaccaca ctgaacagtc tggcttcacc 480  
tagtgctcag gggagacaag tgacagaact cagcagaacc tgtgaagcca tgtgtccacg 540  
gttgacgggc ctatggcaca gcccagggtt ctaagactta ggatgaacct ttgtgcc 597

<210> 1076

<211> 528

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI180040

<400> 1076

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gaagactacg ttgaggctgt gattcaaatt cagtgcagaga aaaggtgctc ggggtctcca 180  
cagtcagcac ggagggtttg ataaagtcag aggcactgtc aggcaccagg gctgctggac 240  
attgaggtat aaccaggcac accatgctga gggagaagga aggtgacaca tttcactttg 300  
tgagggaggt taagcagctg gaaagttagg aaaaacttta ctgggagcaa gatgagagcg 360  
aagtctttaa ggaagagaaa ttaagtccat aaaagctttt ctaacagtaa cagggtctctg 420  
ctacctttta ccagcccatg cccacctgcc cttccccctc ccacactgag gctactctgc 480  
ccacagaaga tgtggtcctt tgttctggag tttcctggag aaatatgg 528

<210> 1077

<211> 600

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI180187

<400> 1077

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tggttaacaa tgacttgaac tgatcaccag taaaaccctg ggctgacatg gggcctctgt 180  
ccttctcccc ccttttaaaga gcatgacccc atttctaatt caaacatttt gcagtgaaga 240  
atcacgagct ttcttgaatg aagaaaacca accagaatta accaaatttc caacatgccg 300  
tgtggcttct tctcaaattt agcatttgca ggtatgagaa accaaagcaa acagagttca 360  
cattccccct ggcttctctc aacttctctac atacctcag gtcaggctgc tcttagctcc 420

gctcctctgg ttcagccaga caatthttaga caagttactc tttcccttcc ctttactatc 480  
ccagtctcct gccttctctc ttgcttttct gacaacacaa aaacttccac ccacccttcc 540  
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<210> 1078

<211> 545

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI180253

<400> 1078

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atcaggagcc gcagccactg gtccgactct cttcttagtg ggagctcctt ggccattttc 180  
ttcatgccat gcttgttgaa tttggatttt catccatgtt atgatggata agagttagga 240  
tataagccat atgaagagca aaaaaggat gcgtggatc tctgttgccc gaagatatcc 300  
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aatatcctca gcaccctgag tagcaggcag accttcttct acgtcaggag taaaagaaga 420  
ttcctcatct gaagtagcag aatcaaatat ttcttcttca cttgtactct ccttgtaaag 480  
aggtaaatca actacataat ccaatccaat gtgactagct ggtcctgagt catgaccctc 540  
gtgcc 545

<210> 1079

<211> 480

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI180367

<400> 1079

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aagggcctaa gtatgacagt ttccacatgt gacatccatt agggacactt taatcagagg 180  
tggcaagggt caccacgggt gtacatggcc cggggcctca tgcaggccca gagctctgct 240  
gtaccgcgtt catcagctct tcactcctgca tagacaactc tgtcaacttt ttcccatcc 300  
tctcatggat gtccaagtac ttggatacgc atcgggtccag acacacagac tcgcctttgg 360  
acagctctgc ctccttgtag tggggaggca cgcacttccg gtggcaggca ctggctcattc 420  
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<210> 1080

<211> 492

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI180392

<400> 1080

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tttaacagtg gagttctgta aagtcaccag atgtaactgt aaaccacact gtgtcacaaa 180  
aggctcacag cacagcatgt gtgggcactc agggctcagtc ggggtgagaa agggccagct 240  
cctgtgtggt gtggctgtta gagcaacctg ttgacctggg ggcagaagtg accagggcag 300

aatgaaagcg tacagactgg aggataaggc tagtgctgtc ttgagggacc aggacccaag 360  
ctctccctca gctgtagact agtttgggtga agctgggtgc agcgaatgac atggatgtaa 420  
tcgcatagac cagccactgc ctgggccagc aactacaggt cccaagacag gcctgaggac 480  
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<210> 1081

<211> 646

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI180442

<400> 1081

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actgctctat gagactcttg aggcggttgt aactgtcttc ctctgacttg aagaacacac 180  
tccgcagatc cagctcctcg tacagtgtt tcacccgcgc cactttttct gggtccttct 240  
gcccataatt ctctcttaag atctggcgct gctgaggagt ggctcgtagc agacactgaa 300  
ccaccagcca gctgcatttg ttgtcctgga tgtcagtgcc gacctttccg gtcacactgg 360  
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ggatcttcag ggcattagcg tgttccttct ccccatcaat tccagccatg tacatggcag 480  
ccgcgatagg caggtagaaa gagtagaaag ctgtcttgta cttgacgata gatttgtagc 540  
tcttttcagt gtatctacca agatccactt ggccctgggg tgctgtgatg aggtcgagag 600  
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<210> 1082

<211> 458

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI227562

<400> 1082

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cagcgaaggg atggtctacg agcgtaggat gctcctggac gagaccagca catgaaccgg 300  
aagcctcacc ggcaagatca tttgaccact aatcctcaac agatgaagtc tattcggccc 360  
caggctaccg gccgggacca cgcaggagct aaagtacagg ctctacagc tagcacacct 420  
acagtcctag cactaccggg gcttcacagc ccccatc 458

<210> 1083

<211> 600

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI227699

<400> 1083

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ataactaaaa tttgacaata ggatgttgct tataactttc tttaaattgt tgttccaagg 180  
aactgtttta gtacatcttc cctaatagtc acagaaaaca aaaattcaac ttttaaacat 240  
gtctactttt gagtaaaatt tctgcacggg ttaaacacac acggattctg tgttcaaaag 300

aacagcctag ctatctgtta tacaggttcc aacaaagaac taagggtcaa agcaaccctt 360  
 gaaatcaaac agccgaacct tagaacatct ctgttctttt agccactcaa atacacacgt 420  
 gctttgcaca gtcttgcagt gtacctcaca ctttccctca ctgtgccctg tggcttgctc 480  
 tattgaaaca caacaatgca tgcttcttca gtgttctcac ttgttaaacc acttctgagg 540  
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<210> 1084

<211> 563

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI227769

<400> 1084

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 tggcagctaa gcactctcggg gaaatagagc tgggtccaga aaacctagggt gtgacatcca 180  
 ccctgcttcg tggtttcaca ctgcacagct gttctcacat tttgctcttc aggactctgt 240  
 gagaggcttt cacatgcact gcattgagga tagaactctg tctccaaagg cttccatcac 300  
 acttctcttt aaatctactg gccttggacc tcaggggagg aagctggggt ttaagttgct 360  
 gttagacagc catttccaca attgatgtaa accattgcat agttttacaa atgaagtgtt 420  
 ctcatctatg ccagagattt cagtcagcaa attgttctgt atccatttct aggggattag 480  
 aagccttttg tcctcaaaca gacatttttt ccattttttg tcgagctttc ataggatgta 540  
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<210> 1085

<211> 469

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI228042

<400> 1085

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 ggggacagat cccatgccaa cccacagagc aggcgcgtct gcctcctatc catttatgct 120  
 gtagttttca tggatttctg gccggatgtc acacacaaag gccaaagggt tatccaggac 180  
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 accttgaggt ttcctatttc tccttggggc caaccagtca cagagaaatg aagtccgtgt 420  
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<210> 1086

<211> 482

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI228197

<400> 1086

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 cagcagaagc ctgaagaatc cgcagctctt ccatccgcaa agcttccacc aaacagagct 180  
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tctccgcaat gaaatcagag catatTTTTct gggccacgcc caagcttgcc ttctcattcc 300  
 tatcgagat tacgtcacca atgagcacct ttttccagga cgtaaaccgg tcggctttca 360  
 gacacaacaa cttgagagct gtgagcattc tccaagatgg tccatcccat ccaaacgtca 420  
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 ct 482

<210> 1087

<211> 567

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI228265

<400> 1087

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 acagcacgca gtaaataaat ccctcccaca ttttgtacaa actacatgat tttgatatac 180  
 aaagattctg tttttattcc actgacaatg tacaaccaac actattttaca atgcaagggg 240  
 aaaaaaaatc aaaaaacaaa aacacgttta taaaccacaa ttaaaccattc tgctactggc 300  
 agccactata gtttagggagg tagctttaat taaacaaaat gaacagaagc cacattttccc 360  
 aactcgtgtt ctaaaaataa tttacacaag ataaaaatta atcatatgca cagtatgtac 420  
 agtttaataca aactgcaatc tagcttaagt ttctgtttaa agtagaacta agatggcagt 480  
 gggtttgcta ctgactgaac acagtctgaa gtcttcttac agaaacacat caaaagccta 540  
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<210> 1088

<211> 461

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI228291

<400> 1088

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 agcatcccca gtgagggata aaaaggaagt atccaatact gagtcaaattg catacgaattg 180  
 tattggttga gcgacagcac taggaccaac tgactaaacc agaactgaag gaccgggacc 240  
 gggctcaggg ggttaaccagc agactcccac attactccga gaactagcct aggatctacc 300  
 aagaaaagac tgggagcagg gttccgtggt ggcacttagc ttatacaagg ccctgggttc 360  
 cgtccacaac accacaagga aaacaaacaa gcaagctact tggttgattt gaattcactg 420  
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<210> 1089

<211> 536

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI228540

<400> 1089

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 gtgaagggtta aagaaaatgg gccagtggtt tgttccatat gaacgggtgag gaggtgcttg 180  
 ccaacactcg gacaggtcct gaggggaaat gaagttcatc agctccctca cttccaacag 240  
 tgaggcagag aagaacacag agatacccgga ccacttctt ccagtggctt caacgtagtc 300

atatgggtgt tcaaattgga cttctgcgaa ctgttcaagt ccctctcgag gcctaagaag 360  
 gggatcatat cttctgtgag tgtcgaaagta gttccatgaa gccctttcct tgtgacttgg 420  
 tcacgggtcca tagaaaatgt gacttgcata tagtggttgg cttcatattt ctgtagtccc 480  
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<210> 1090

<211> 600

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI228557

<400> 1090

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 atcactcaaa tgtatccaga gtatacttga atttcataca cagcttgaca aggtgggtct 180  
 gacaggtcct ccattagtcga atgaatggaa atggatcttt cgtgaaaggc atagaaaata 240  
 atctagacta aactgaagg aatttgggtta actctgaatt tctttacatt acaaagaaga 300  
 gaacaaatgt gcccaaaagt aaacaggcgt ggatgtagtt tacgggttctc catacactta 360  
 catatgcaca aacgtcagca gggagactct aaggaaccag caacttctaa ctcaagtga 420  
 caactacgca ccagcaaagc ttatggaaag actcaatgggt gtatgtagt taaaaagggg 480  
 aaggagctgg ggaatgctat tcagcttgct gaaacaaggg cacgcacaca ccgtaaatga 540  
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<210> 1091

<211> 611

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI228596

<400> 1091

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 ttaaaaaaat atcagttcag actattattg aaagtgacta tgcacaataa ataggaatgg 120  
 cctgcgtgtg ctgcagacat gggacacaaa aggttggtg caatcagcaa agagtgcata 180  
 gcacctggga ggaagtttca aatgtctaga aaagttagtc agagctctgg accactcacc 240  
 aaataaaaca aaaagcaaaa acaaacaaaa caaaaacccc actcagtaca tctggcaaac 300  
 aacttcccaa caacactgaa ctatctcctg cgaccataa gaacaattta aaatacccaa 360  
 agtgctaaga cctcattagc agtactttta atctgagttt taatgttaaa tatgattact 420  
 cgaataccct aaactgtatg acatgcctaa taacaataag ttacaaatat tcaacctaat 480  
 aacttagaca tgatattggtt aatataacag acattgtatc tcagctaacc tttcatgtaa 540  
 ggtgagaatt aaaagacttg ttcactctgt cactcaaag aggaatgtgg tatcctagca 600  
 acagtgatga c 611

<210> 1092

<211> 592

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI228624

<400> 1092

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accatgtggg ggcaccaaga catgaacctt ctgtcctcta gaagaacagc taacggaaat 180
ctttatagct gatccatctt gacaggctct aaagataaac cttattttaat ctgcaaagtg 240
aaaaagtttt gcaagggtcat gcccagagct aaaaattttga cgcttttcctt tgcaaagctg 300
aatgggtgaag gtgtcaagaa gaccagttct cagagagaag actttaatga atatatttta 360
caaacacact ggagaatcag gcaatgcttc ctgcatggga tgcaatcctg ggccacaagt 420
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ttactatgac ccttgcatga tcttcaaaat aaaggaacac cccgtctttt cttcgatatg 540
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<210> 1093

<211> 586

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. AI228630

<400> 1093

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cctgcggagc ttctgagacc cacacatcag accagtctct tcacttcaaa ggccaagtat 180
gagagcagac acagttccta ccccagaggg tgctgaggaa acacgtccct gcccaccctg 240
tcctccctca aagatctcag aaagaaaggc cagtatactg ggccctgggt ggtcaattta 300
actcttggtg tgaagacctg ggcaaaaggc taatgggtct atttagacct cgtgtctaca 360
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gctgcacccc agataatgga tgtccggcca cattctggct agagatagaa atccaagcag 480
actgggtatg aatgcatgag gaaaccactt ggcccagttt ggggacgggt agtccaggct 540
cagcctgggc ccaaactttg ggtttctgtc tctcactacc cagtgt 586

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<210> 1094

<211> 509

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. AI228676

<400> 1094

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cactacacgt ctaaaagagg atcttcagta tgccagtgc accaggacac atccctggca 180
caggtgatct ccagaagaaa agctgatggg ctagagagct ttctcctctg ccttcacagt 240
gctgactctg ggtggagggg acaggggtct ctcggagttt atcactgagg gaccagttcc 300
cttagagagg ccagagcagc atggacacgg acgtgcagtc tgttttcaaa gtcgtagcca 360
gaaaaatcct cctttgctg aaggagtagc gttctgcctc ttgctacaga ctctgctctg 420
tctagcagga gacagccaag ctcatagcag gcatatggct ggacgtatga gttattctga 480
cggcacgact cgtcttttag cctcgtgcc 509

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<210> 1095

<211> 525

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. AI228723

<400> 1095

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ggcagtgccc tggcaatagt atccttcagg ctctcacagg agggtagctg gtcctcagta 480
agggtgcgt accttcttcc taagcagacc cttagtaaac aaaga 525
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<210> 1096

<211> 487

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI228728

<400> 1096

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gcaataacca taccagcaga aagcaaacat ctgcgaattc aaatcaagca ttttgcagga 180
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attaatcacc gctactgtac tccagtctta agagaaaagc agccaggact caacagccat 360
gcttgctggg cagattccgt ttgctgcctc cagcctctca tccccgcctt aattgtaggg 420
ctctgtatta taaccacata attcatgcct ccctaattaa agctgtcaac agcctcattg 480
taaagct 487
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<210> 1097

<211> 550

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI228729

<400> 1097

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tttgccaact tctttttttg gtaagggtgt taaagttcca tgtaagaca atacagatga 180
aagctgttga aaaaaaatct tcaaatgtac aaaactgttt tttttcttga taattaaaaa 240
atacataaca atttaaactg aaaacacatt aagttagtgt tgcatactta ctatacaatt 300
tttattataa gggactgcct tccatttagt taaaatctaa agaatgccat caattttttc 360
ctgccttatt tttctgatca gcaatagtaa acacaatttt atgacccttt aaagaatgct 420
tagataaact ataataccat agttcacatg aagcccttta aaacattcat gtcatagact 480
gtagacatca gggcaataag gacccagttt ttccaggaga ccctcttggc agaggattca 540
gtactgaata 550
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<210> 1098

<211> 511

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI228931

<400> 1098

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cctgcttccct ggggccacat tgccggacat gagcagagtgc cggctggaga caaacttggtg 120
gattctgggtc ctggcagaac ttacttttct tctcttggtta acgtttcaca tacaattcag 180
cagcagatta cccctcacag aaaactctga tcttcatttt aaattaactt gagaggacaa 240
gagaaacggt atggtggccc atgcctgtgg gccagcactt aggaggcaaa catgggaaat 300
caatgcagat tcaaagtcac ccaggggggt gcaccaaggc cctgggttta aaaagggaaa 360
tcaaaccaac ttcaccatca acaacaacaa cgccagagga gataagcaag caagtgtcca 420
gtgccacgtg cagttcgggt ccaatagttt acctcgagtc tcaaagagcg gcaggctgaa 480
gttgtgatgg aagggtttgt ggtggggccc t 511
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<210> 1099

<211> 570

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI228959

<400> 1099

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aggacttgca cacttgatg aatgtaatgc aaatactgac aacacgaggc attcacagtc 180
acaggctggc tgctgtcac atcacagcag cgcccgatgg aaatcagttt atggaaaaaa 240
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tacaatttta tacaactatg aaagaataaa ggataaggct tacagaggta ttttagcagt 360
tgtaaaaaata aaaaccaagg acacaaaacta aactcttaaa gctttctgta taaacttcaa 420
aagtatgggtt aggatggaga cttagaggca acagaaatct gttaaaccag aatctagagg 480
tttgtctaata cagatatcaa tactgaactc aagagttagc gctttaaaag aggcgcacct 540
aaggctacaa tgggtatcca gcaaatcttg 570
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<210> 1100

<211> 531

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI229035

<400> 1100

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ataggaccgt cacacagaag ggagtaacta atcaacatac atccggatgg aaactcatgg 240
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tctcgagcct tagtcacaac acgccagaat ctgctattca cattatgatc agcattttcac 360
cgtcaaaaaa taactgttca gtttttaggga gcaatctaca gtcggacttt agaaggaagg 420
taatccctcc atttcttcac atgccccatg ccatctgctg agtgagtttg acttggtgtc 480
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<210> 1101

<211> 430

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI229167

<400> 1101

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 caaactgttc agagacctaa agaagctaac aagcaaggct cttccaaagt gaggttaatg 240  
 gaaatcccta taacgtcagt agcttccagc aaagcacgac aaagcaccat caaaggctga 300  
 aagctaaaaa tagatatatta ataataattcc attttttatt ggaaaactct ttaaattaca 360  
 ttaaataagt ctctttttccc ccaaagaaat tgtctagctt ttatgatgcc tgtataagtt 420  
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<210> 1102

<211> 319

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI229172

<400> 1102

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 tactttttatt ttggtgggaa aacgaatgct gtctctttct ctctcctatc tctccccct 180  
 caggcaactg tgccctctac catcgggggg gctgggtgga ccattgctgc gccactcca 240  
 accttaatgg tgtatggat caccgaggtc attaccggag ccgataccag gacgggggtc 300  
 actgggcccga cctcgtgcc 319

<210> 1103

<211> 467

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI229178

<400> 1103

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 agcaaagcac aagacttgaa caccgaaatc aatggtaagc gttctcttgt cgggtgtagc 180  
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 ctattctcgg agaggatgga gagtcccaa agagttttg atgctgaaga atctgaagct 360  
 gttatcaaaa ctcacggaga gggagcaagg cgaatgtgac ggggtgtgtaa ctcaggcata 420  
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<210> 1104

<211> 386

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI229192

<400> 1104

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 aagcgttgac accccactta cagcacattg caaatgtgcc ccccatcttt atgctggatt 180  
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 gttccctgag tgtacgcgct ccgcggcacc agtgggggtga cagccgagtc acgtctggct 300  
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 cgcgggccag gggcaccat cgtgcc 386

<210> 1105  
 <211> 457  
 <212> DNA  
 <213> Rattus norvegicus

<220>  
 <223> Genbank Accession No. AI229235

<400> 1105  
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 ggacctgctc aggagcttaa gggttgggtt ggggtgggata tggacagtaa cacttctaac 240  
 aactggtttt aaaataagaa tgtctttttt ccactgaaaa caaaattaat catttcatat 300  
 tcactagtaa aggagctgct gggaaacaca atgcacacga gtctgagcaa cctcgggcac 360  
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 atagggctaa tatccagctt ttctcaacaa atttatac 457

<210> 1106  
 <211> 414  
 <212> DNA  
 <213> Rattus norvegicus

<220>  
 <223> Genbank Accession No. AI229240

<400> 1106  
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 cggagccttg ggctgggaag ggtgaagggt gaggaggagt tctcaggccg agcttagaag 300  
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 ttgttcccgg ggatccctga gatgccctat attcaataaa atgactatga catt 414

<210> 1107  
 <211> 482  
 <212> DNA  
 <213> Rattus norvegicus

<220>  
 <223> Genbank Accession No. AI229253

<400> 1107  
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 actctccaca accatagaac acaggcacag actgtctggt atgtgcagaa acggccaggg 180  
 acttgatgaac agaaggcatg cacttagcgt tagtgaaggg tgacagttgt gtgacttctg 240  
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 actgcctttt tagccacca gctagagtgt acacatacga agaggtggga aggcaatcag 360  
 aaaccttcca ggagcctttt catctcctag aaggcataag cagcaaatga aacacagcat 420  
 aaccttttaa aggaaggcta gggctgggtg tgtgtgctg gtgtgtgtgt gtgtgtgtgc 480  
 ct 482

<210> 1108  
 <211> 501  
 <212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI229307

<220>

<221> unsure

<222> (1)..(501)

<223> n = a or c or g or t

<400> 1108

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aaaaattctc agcaatatac atttgcaccc aagaaatata tgcagcatca ctgccgtctg 180
acaatgtcct gactaaccac accgactcct gcacatgtgc gttctacttg gggactcaga 240
acacaggctt cagtgcaca cttatttccg taggaaacac aggcccagtg gcgtcttctg 300
acaactgttt ccaatggct gagcacagcc tccatctgcc ttaaagcact ctcccccg 360
ccaatgaaag aaacaactag aattcaggag catttgagga tcccagtgcg ggaccgagga 420
gggatactta gggctaccct gtgccacana acttacgcaa aaatttacct agaaaacaaa 480
actgaaaaaa ctcttagatt t 501
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<210> 1109

<211> 493

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI229318

<400> 1109

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aacagaatgt aacatgacta tcgtgtatgg attgaaatag acgaagaata cagtaatttt 180
accggttaca ctttgtaaaa tcagacatga atttataagc agtgccttta ataaagacag 240
taatttcatt tcaaataaat atatttcctt tctattcctt tatcatgtag tttattatgt 300
tcctaactgg taaaacgcac cagattattg aactcagtaa taatccaatc catgatactc 360
catttgtctt acatttaact catttgatgt aactgcaag ttcacagagc agttcctatg 420
aaactgttag aacctaccgc agcctagtgt gacaggcctt ttggacaaga ccaagggggg 480
tacgtttgag cat 493
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<210> 1110

<211> 502

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI229337

<400> 1110

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tgtttagctt tccattgctt tccagtactt gccgataga agctaacagc actcaaaact 120
ggggagttaa cacccaatac cacattttct aagacgttcc tcaaggcatt ggtgattgta 180
atttaaaaat aaaggaattt taattagcat tggaaatcta aatgacgatg ggtttcaaga 240
gctaaaaatc agatctttta aaaaaggctt tgttttattt tgaaggactc aaacctgaag 300
gacgcctcca atagaatata gtatgtccca actcccaaat tagtaaattc atcatttcac 360
cttagagtat gagaactata aaatggaatc tctaaattat tacatatata aatacatcat 420
tttaacagtc atgtttgcta gcagaattat gaaataaaaa ccaaactctac attcacggta 480
caaagaataa tgttcttcca ct 502
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<210> 1111  
<211> 535  
<212> DNA  
<213> *Rattus norvegicus*

<220>  
<223> Genbank Accession No. AI229416

<400> 1111  
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aatattacaa atttcagatc acttcacagc acgtactcct ataaacattt aaaagttaat 120  
tttaattaag agtgggtcact tttaagtTTta atgtttgata tgaccaacat tccctaggtc 180  
agagcaacca aaggatggaa aacaactgga tcacactgca tatgtcccaa acaaacaaac 240  
aaacaaacaa acaaacaaaa caagaaagaa aaggaaggaa ggaaggaaag cacaatgtac 300  
aaaatgtgca tgtttcagtt tacactatac aaaaatagtt aaaatacatt ccaggtaaac 360  
atgttacatt aagaaatagc actagtaaga aattggcact caaataaaaa tgcagacgtg 420  
ttttcaacat tgaagacatg agacagtggg attggggggac caggagataa aacagcacat 480  
agcccactca gctgggtgga gttgagtctg aaactggcat ttctgcagaa cttca 535

<210> 1112  
<211> 555  
<212> DNA  
<213> *Rattus norvegicus*

<220>  
<223> Genbank Accession No. AI229502

<400> 1112  
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ctgcttctca agtcttttatg gagctgcact tctaagtcaa tgggtgagtt cctctctgtg 120  
ctgtcagcca aaggagccag cctctgctgt caaactcgga gtcccagcag ctgatgacat 180  
gggagtcgga tctagtattg cttagaggagc ttgcttacaa tggcagctgg catgtccgtt 240  
agacctcttt ttcagaacca tttgtctcac atacttgggg actgctgtgc agggacaccc 300  
ggtgtggcct gacgaggcaa cgtgtacatg gctcccaaaa actggtcggc aatccttctc 360  
gcttctcgaa gccactcag cagagcacca tggaccgtag ctgggtagtt gcggattgta 420  
tgttctccag caaagaagag tcttggactg cggatgtttt ccactcagga agaggcggca 480  
caaactgaac agctgggtggc tgctgcttca gcactcccaa aggaagggtt cagagcactg 540  
cgttacactt tataa 555

<210> 1113  
<211> 550  
<212> DNA  
<213> *Rattus norvegicus*

<220>  
<223> Genbank Accession No. AI229680

<400> 1113  
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acatcttgcg aagttacttg gcttcaggct tcttgtctcc agcttcaagc ttgagatgct 120  
caggggggctg acgataggca gggaaagcct cccaggggct gttcagggtca aacttgcgga 180  
actcttgtgc caactccact ggctcagcca ctaccgctt cacctcatcg tcataacgta 240  
gctcaacata gccagtggag ggaaagtctt tccggaaagg atgtccctcg aagccataat 300  
ctgtcaggat ccttctcaag tcagggtggg tgaagaagaa aactccaaac atgtcccaga 360  
cctccctctc ataccaattg gccgcgatgt gcacagacac tatggagtca atggctgtca 420  
gctcatctgc ataggtcttc acacgaatcc tagagttaaa ccgcagggac agcaagtgtg 480  
agacaatctc aaaacgggtt tgccgagttg ggacatccac tgctgtcaag tcagccaaag 540

550

<211> 393

<212> DNA

<213> Rattus norvegicus

 $\langle 220 \rangle$ 

<223> Genbank Accession No. AI229698

<400> 1114

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gccttgaggg	ttagggccac	ccaccagtgc	cctgtatttg	gaaggcccaa	accattcacc	120
acattgaaca	ctaggttaaa	ataggctctc	taaacagtgg	acaaccaca	atgggttaatc	180
aaaagataac	tgatgaactc	tcccatcagc	tccttgcaag	ctgcaggacc	tcttagctct	240
tcatgatgta	atcttgtcag	agatggctcc	agaaaatggg	tcatgacctg	catccgcacc	300
accagtagta	gtccatggga	tggtaggta	taaggggtgg	cagcagtcag	ggcatgggtg	360
acacqctttt	qacqqaqacq	tatcgtqgaa	ccg			393

<210> 1115

<211> 544

<212> DNA

<213> Rattus norvegicus

 $\langle 220 \rangle$ 

<223> Genbank Accession No. AI229739

<400> 1115

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ggggagacca	aggggaagaga	acaacgcacc	cgtaaagtac	agaggtcatt	acaaggcaga	120
gcgatgctgc	atcaagttac	aaacaggcca	ggctgtcaaa	agagctgtgt	aggttgaggg	180
tgggaactgg	gaggtgtgtt	cctctgggct	agcgtgggag	tagggccttg	tatcagttcc	240
tgagctcaaa	gccctgcagc	aacctgggt	tggcaaggac	gtctgaggca	gccttatctt	300
atactaggac	catcagcccc	agagtgcctg	gggccaccat	gcagcatggg	cagtttactg	360
tgggtccctt	tcttacgggc	tcaggagagg	acttgcagct	gtgcctggag	cacctgtggc	420
cactgggcca	tgaacatgca	gtgtctgtcc	cctaactctc	aagtaagggtg	gaggcagcga	480
ctgctgaagc	agttgccagg	atagcgggcc	gtgcgtacag	tgttcactca	aggttttgtt	540
ccaa						544

<210> 1116

<211> 395

<212> DNA

<213> Rattus norvegicus

**<220>**

<223> Genbank Accession No. AI229789

<400> 1116

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gggaggaaaa	tccaagggtc	ctgaagcttg	ggtatcactg	ggcagggatc	tgggactacc	180
ttggacccaa	gtctgtcttc	cacctgtgga	atgccatcta	gggtcagcgg	acattggcag	240
ttcagttccc	aggctctggc	tgggaaaagt	caagtttcac	actgtggctg	atatagtaag	300
ccaaaccttt	aatggtagca	gtaaagcagt	tgacagtgtc	ctgcacctac	actgcactta	360
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<210> 1117

<211> 499

<212> DNA  
 <213> Rattus norvegicus

<220>  
 <223> Genbank Accession No. AI229832

<400> 1117  
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 tccaactccc taggagccaa tgtgcaaagg cagggagggc ttggagatca cgcttccagt 180  
 ctacacagctg aatggcactg aggaagtcct cattatctga gtcttggagg aagcaggggtg 240  
 gggcaggagg gctggggggg gagaggatct gggcccctag ggccagctgg gacacagtga 300  
 gctctctgcc cttatgcatg acgtaaaagt ggaagtgaag accgctgcta taggttgtat 360  
 gcctcagtga ccagtcgtaa cagggttgag catagtgtct gatcctgaag tggggacccg 420  
 caggattcat ggagatgaat cggcctccag gaaccagcac ccggttcacc tactcagca 480  
 cctgtgccac agtgtggac 499

<210> 1118  
 <211> 545  
 <212> DNA  
 <213> Rattus norvegicus

<220>  
 <223> Genbank Accession No. AI229902

<400> 1118  
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 cacttccata cttgtcggaa cagtatgctt cacatcaata caattatatt agttcataaa 180  
 aaaaagacac gtgtctaaca tgcagcttac atacatgaca atctgcatta aactgaaaag 240  
 attacacaac agtttagaaa acattgggta tcttcaaaca gcaaaaaaaaa atgacaattc 300  
 tacaactaca gtttaaggca ttatcagcat attttaaaat caagaaatag acaaaagtgc 360  
 taatgctggt cacagcttaa ttttcaattt atttttaaaa attcccttca tacttacgta 420  
 caaactagac tctgaagggtc atgattcagc taacgactcc ataataaatg ttctgtcaat 480  
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 attca 545

<210> 1119  
 <211> 546  
 <212> DNA  
 <213> Rattus norvegicus

<220>  
 <223> Genbank Accession No. AI229906

<400> 1119  
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 ctgaactgta caagagttat ttattttcct taatctcaaa gctattttta gtagtataaa 180  
 aaagccatat taacattttt tttccattag aaaacaacag gatgtacaaa actttggatg 240  
 aaaagtatgt caaattgcat ttagccattt ggaggaaaat ccaccactcc atcagtacca 300  
 cccaaagtgt ttttaggcag tgattaaaat caaaataatg catcttaata aatctcagct 360  
 gttaaaagaa caaacctagc aatatagaat acttttctac acagtatttt taactactca 420  
 gttcaggagt tatttttttt ttctttttta aaaaccattt tcagttgagt gctactacat 480  
 accaggcacc atatttggcc aactaggggt tttcgaacaa gttgggttaa gtgggaaaga 540  
 cccaca 546

<210> 1120

<211> 450  
<212> DNA  
<213> *Rattus norvegicus*

<220>  
<223> Genbank Accession No. AI229979

<220>  
<221> unsure  
<222> (1)..(450)  
<223> n = a or c or g or t

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gcctgctctg gaggagatgg atcaagaatc ctaaggcact gtgcttctgt ggatgccttg 180  
atgaagccaa agagctggca ctgtcaagct ctggtttcca tggccactgc cttcggtgga 240  
gttttagttct ctcccagccc ctccctcttg gggcagggaa ttttagtatc tggtgccctt 300  
atcacaagggt cctgggggtct ggaggtagaa agtgagatgc aggagaagaa atgggggcang 360  
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<210> 1121  
<211> 516  
<212> DNA  
<213> *Rattus norvegicus*

<220>  
<223> Genbank Accession No. AI230046

<400> 1121  
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gcataaaaca tgcattaata tcaactgcca catgttgacc caaacatct ctatgagaat 180  
agtaagaaaa ctagtgtgta acaggtacaa aaagagggtt tctgggttaag tggggaacct 240  
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ctacaccttg gtgctgacct ataaagggca gacaactttt tggtagttaa atctgatatc 360  
tgggaagata caaatTTTtga ggacaacatg ctggtaacat gaaaagtgc actctcaa 420  
tcaaaacaac ctgagacttg gaggatccct aggctgtagg caccggagggt ttttaactga 480  
gccctatcca ggaggccagc tcagtgcaca caggct 516

<210> 1122  
<211> 544  
<212> DNA  
<213> *Rattus norvegicus*

<220>  
<223> Genbank Accession No. AI230056

<400> 1122  
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cacaaacggt tacaccgat cgctggcaga gacctttcag aaactgtagt cactgagttc 120  
attatgagtc aaggtgcttg tgggttggtt gaggaagaaa agatcaacac atcatacata 180  
aattcacaaa gtgctgaagt tacacacggg aaactaactt tgaagtaatt ctggtggtta 240  
aagtatcaac aatgaagatt caaggagac caaacattcc catgaaagga ttagttttaa 300  
tcagagagca aggagagcac gtcattccca aaagccgaga ccatgactcc aggtctagt 360  
cacaccagga acatctgacc aaggaggtcc ctttccttgt ccatcatttc agttctatcc 420  
ccttttcaag ggcacgaat gctctgaaag tttcctgtgt cttggcttat acacatatct 480



acctccctcc cagaaagaaa gctcaagaaa gcaggagtgt gcagtctttc ttgttcttgg 540  
ctga 544

<210> 1123

<211> 418

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI230074

<400> 1123

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ttccttagtc aatgttctcc aggcccttgg acacatagta gcgattgaca ccagagatgc 180  
gtctatcgcg ttccatcaaa taccattggg aatgaactcg agcaactctc ttttccttgc 240  
ccccgttggg gaacttgtgg atgtacgcag tggacacccc ggggatgacc aggcacaccc 300  
ccataatggc gaggccaggg agaattctga accacatctt ctcaccgtta ctcacactcc 360  
aaccgcgtcac cgttaccggc tcctcagagg tgaccggggg cttcaccgcc ctcgtgcc 418

<210> 1124

<211> 531

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI230134

<400> 1124

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atgcgatttt caaaatcacc aatccaaaaa aaaaaaaaaa aattgcttac ctcgaaaatc 180  
aagaaattcg aatgcagact tatctttgga aactacaagt gactacagcc caggtgatgg 240  
tcgcacactg cctttggctc gccgtgtcgt gtgcaaatgt gcagggcgca cttctgggga 300  
gtgacgttag ggcggaggga gccatgcgca ggtgcggcac atttgagggg ctcgtcaagc 360  
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ttgatcagac agatgtataa aattgatctg agcttgggtg gccatcccag gtgtctcttg 480  
ggaagtgact aagaactaag atgtcacctt gctagcacia gccctcgtgc c 531

<210> 1125

<211> 501

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI230171

<400> 1125

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attcatatac attcaacata tactgcgcgt gttggctact acgatataaa gcaatgggtga 180  
gcttgaaaat agttcgcaag atggcacggg taataggctc actggctttt gtctgggtgg 240  
ctctggaggg tgggtgtctg tcttccatca atccagtacc atgtaaacag gtcaggccga 300  
gcgggggggag cagcaggacg gggctggagc atcagagttg gactgagctt ggaagccaac 360  
aatagcttgc taagctttct tgaaagtcag acttctagct agtaattagc gacacctgga 420  
gtggaggggc gattggagga tatgggacca tgggacaggt ccctagccaa gctctcacat 480  
tgaaaacaaa tccgttcaag g 501

<210> 1126  
<211> 626  
<212> DNA  
<213> Rattus norvegicus

<220>  
<223> Genbank Accession No. AI230228

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ggttaaacta caaaaacagc catgcatca cagtttgggg gtgggggtgt aactgagttt 180  
tgtttaacgg cctaaccgaa aagcaaagaa acaaccattt cttctacttg tggcaagaaa 240  
agtaaatacat ggaactccta gatccttctc atgaagcagc tttaaaaggc agtaggtgga 300  
gggtgccagt gtccacaaca gacgacggtc atgcacaaag tcacgggctg aacgaactct 360  
gaaaagcctc tacagaactg tttcattaga aattcaaaaag catagatata aaccgtatgg 420  
tgtttaaaaa agttcccacc ccataaacac ggcctatcat gcctgtcttt ttatgggaat 480  
tgcagtagac agatccagaa tgctcatcag tcaactgtga ctttaaccaa cagctgcaga 540  
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gctcctaacg ataaagaacc agttgg 626

<210> 1127  
<211> 463  
<212> DNA  
<213> Rattus norvegicus

<220>  
<223> Genbank Accession No. AI230270

<400> 1127  
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cagctgctgg gaaccaaggg gaaggcctcc agctctgtca tgagcttgaa aggctgctcc 180  
gtccctgggt agggagtaga agggagcctg cttggctgag gatggttgac tcacatagtc 240  
cagtaagcat agagcagggc gaagactatg aagatggcca ccgagagtag catgttcttc 300  
cggttctctt gtcgaagcag ctttagctcc ttctcatatt tcgaggcttt gttcatgagg 360  
gcgtttttct ccttctccag agacctccga tccctaggac tcagctctgc cctgtggagc 420  
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<210> 1128  
<211> 579  
<212> DNA  
<213> Rattus norvegicus

<220>  
<223> Genbank Accession No. AI230320

<400> 1128  
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agcttctacta tcataaaatc aaaacattaa gcaatattcc aaaaaagatc ttagacaaaa 120  
actagccact gatggtacaa aaattacaca ctaacgcaat cataaaaaat gtaaaactttc 180  
aaattaaaca gtcaagaaat ctgtatctgc accatttcat acaccatgac agttgctagc 240  
tgtggctgca ctccaacgtg agggcttggg tggagctgct gtctgtgacc tgatgctctt 300  
tcaactggga aaaatgtgtc tggcacaagt tgagagctgg aactaaacag tgagtgtgag 360  
tcaactggcta aaatgacaca cacatctcag aggcacactt cagttctttc tccaaatgtg 420  
ctcttggatg ggagtaaag acaacaggaa caccgggtgt gagagccaca gccacacag 480  
ctgttcctga agaaagcctg aatgggtocaa tccctgcctg caggaaatga agatatgcag 540  
atcacggtac aattacgtga tttcctaatac tacgcatct 579

<210> 1129  
 <211> 547  
 <212> DNA  
 <213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI230326

<400> 1129

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atgaggaagt ggaaccccaa actggagact gcgccttctg ggacagcact ggacagggta 180
tgtagtagcc tagagggcca gggccgtgat atgtacaggg gtgttctgtg tacccttggg 240
tgccacatca ggccacctgg gtgcccagtg catcttgatg ggccctgacct gctcagaccc 300
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gactgct                                     547

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<210> 1130  
 <211> 551  
 <212> DNA  
 <213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI230373

<400> 1130

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gtcaatagaa atgctttatt taaaaaatag cgacttaa ataaacatct ctaaataataa 60
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caccaggatt ttaaggccac atgtgcatct ggaaggctgc agtctaggac ccatgctgag 180
acaagtctct gggaccgttt ctccacatga ggggttagcg atcaccttcc agccttgggt 240
tcgaggtctc attaggcaca ttagcatctg tctgactttg aaatattgtc cttgaagtat 300
ggcagctgga ggtgagaaag aaaattctta tttccaaact ctaaggcaag cttcttcggc 360
caccggtcct acctacttca aaataagcca cgtgggttgt cttgagcacg tgtggaggtg 420
actagaccgc agcagagcgc tgcggtggaa gggggtgggg caagcgtctg gcttccaccc 480
agcagaatac tttcaatggc tggccggagt gccaaagccc ctagactagg gaaatcttgt 540
cagtcaataa g                                     551

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<210> 1131  
 <211> 496  
 <212> DNA  
 <213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI230395

<400> 1131

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gaggttatac aaggaaagaa acatggctct tgtgttgacg aattgatttt aaatgagaga 180
atttacaaaa ccaagaaatc catggtcata aagttttaac attttaatcc tacacattac 240
agggcaaaac gatactggac cctatttcca cattccataa atccaaactt tagttcccat 300
ttcaaacggt gccctaacca ctaaaaccat cagtgggtctt acaacctctg gattatggaa 360
atacagattt ctgaagtaaa agctacaaaa acaacaatgg aagaaagctg aacaaacttc 420
ccatgaatga aaataaaagt ggaacatcct gaagctctag acacttctct cccgtgtcta 480

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tggtcaactt gtcggt

496

<210> 1132

<211> 663

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI230431

<400> 1132

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aaagattaca gttaggggggt acgcagactc attactgca tggatcacag catagccaca 120
gcttgctact cagagttcta aagaaactgt tcatgttaag aagtagctct tctaaattag 180
aaatacgcag agaacaacaa ctagcagaaa ggcaggagac atacaggctg caggaagatg 240
cgacagttct gaaatcagac cacttgctcg tgaacatctg taagcatcac atcggctctc 300
tctctgaatt tatatacatc aaaaatatac tccaagctgg tcgcggtatg aaaataaagc 360
atacaattta aaagcaaaat ggtgagcatt tacaacaaaa tgtgaattac ctgtacacac 420
gttttaagag gcacaatctg ttctatacag taactgtcat actgaattca tattatacac 480
agtgtatctt gataagtggg ttgagtgaag acacagtacc gaaacattga taaaaataa 540
attacatatt acttagtaat tttaaagtta cagacttcaa aaaaattttt tagccaaatg 600
ttcaactaaa aacaaatttt atgaaaaatt atgtcagatt ttacaaatgg cccctttcag 660
gct 663
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<210> 1133

<211> 546

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI230439

<220>

<221> unsure

<222> (1)..(546)

<223> n = a or c or g or t

<400> 1133

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ccagggtggtt caaagcaagg atgaccccag gctggcaaag tcctgatttt caggctcagg 180
ctgcagggtga cccttggtgt agctgggtta taggggcagc caaggactca ggctggggac 240
ccacaagctt gagggctcac tccccgttgt gcctggcttt tccagtcac cgacggcggc 300
gctgggtctt gctggtacga gtggcacttg gaggtttctt ggtggagtcc tgcgcccgcc 360
gaggggtgttt cctcttgacc ttcttccgac tgtgtgcatg cagtgtagct gtgagggagg 420
agatgcgctg agagagcacg ggatccttgg acttcttggg caaggctttt gtaggctttt 480
ccatggatga cacctnctgc tcctgggacc catcctgggt cccttgctca ggcaggggta 540
gaccta 546
```

<210> 1134

<211> 651

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI230577

<400> 1134

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ccgccctcga aaacccttag aaaggacacc caagaaaata taacaaatta ccgagaagca 60
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agcgctcgca cgtcggggcg agagttcgca gctttctttg ctcgcccgca ggaacagata 180
tttcgtacgt cactaccggt ctacatctct ctttttagtaa tttataagct tagatcgccg 240
attagaagac ggcgtagcgc cctccaaggt cggagaaga gggcgccgta aggggagagg 300
gatagtttat cgggaaagta gatgtccgag ccgagagtta cactaagcag tacgtgtcgc 360
gactgcccac aacaacaaca aagatcctag taaccagacg ccactctaa agtagggatt 420
tacggaaggc ccataaaaag gcgctcttcc ttaatccgga cctcgatgat cttcagaaaa 480
agacgattcc cgtccgcgta caccacaac agcctgcact ataacaaacg cacctaaatt 540
ctgcgttgaa cctccggttc tgagggttaa acctttcaca gcgagctgca ccaaacctgc 600
aactacgcta cagtcgccct tcgcgcgaaa ccgccacttg tctataacct t 651

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<210> 1135

<211> 385

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. AI230614

<400> 1135

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acaggcaaaa tgggcacgtc ccaaggctca atgattatatt ttttcttttg ccatttacag 60
cagaataaat attttgttgc tattgtctaca ctttaaattt acatttctaac ctattaaatg 120
caaaagctat tgtaaagcat atagattaag tgtagggtccc atacgtatga cagtttggtc 180
aagactagta ggtttggtga tctttttctt taacttatta aatggctatt gtgaaagatt 240
tgtgcttggt atcagctctt aacttaaatt ttacatcac atcttccttg aaaacagtct 300
ttcttactgt cccaatggt ctcaccatac gccttacact caatgcggat ttcagtgtcc 360
aaggtgaggt tggatgaactg cactg 385

```

<210> 1136

<211> 585

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. AI230716

<400> 1136

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atgcaaaaat ttatttgacc aaaatgtaga aaaagtgata ccattacgta tgataacaatc 60
gcaagaatct aaagaacaga gtagatttta tcaattgcac agtttgctaa aagttcatct 120
ccctggtagt gtgatgctta ataaatagga gtgaggggca ggggttcagat aagctataag 180
caggtgactc tccgtcagca ctgtaaaactc gaggtggccc cacactgctg gggaatgtgg 240
aatgtttcag ggagatgtta actgaaaaag caaaactaca atgccaaaaa atatgtgcag 300
cctctagagc gctccacgtc cagttcagtc aggagtcttc ggactgtatt agtgtcattc 360
ccaaaggaat tcaagtctca gcaaactcaa gctcccattt cttgatccct gaacaatgga 420
tatgaagtta agccaattgc tttctctatc actactttgc ggctggagag accctttggt 480
gcctaaccct tggcatcaat gttctgatgg ctggcaacct gcataattatt tgagacagag 540
tctcgctgtg tatcgctggt acctggcttt gctagcagtc ttgat 585

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<210> 1137

<211> 669

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. AI230743

<400> 1137

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ttgtcatcac ttttcttcat gatccagata tttgaaaatg caaagaaaac gaacttttca 60
tgatatgtca gggactggca ctaaaaaaaaaa ttcagactgc aaatgagtta tacaaatgaa 120
atatcaaatg gagatccagt tatcaaaatg aaagcactca acatattaaa agttcacaat 180
tattttgtaca gagcacataa aaaagtcagc ttgctatcca accgctgtgc tttttaaaga 240
gctactgcag aatttgaaga aaatagggcat tgtagttaa cttataaaga gaccaaagag 300
cctgaaacaa gtagtaaaaa gaaatttttg cctttattag aatggcatta ggccttaa 360
atgccaat tggtaatcac attattgttt taataagaaa cgactctaca gaattgcaat 420
actgggtccaa cagtcttgct tttcttttaa agcaagaaaac agaattgtaag taaccagaaa 480
gcagggcagg catcagctaa cccaggagac tagcttctta gatccaagcg tttgcagaga 540
gaaccgttgg gctggggagg ggtggagcag ctgcagataa ctggaaccca gagtgcacgc 600
caagtcccat gaggctgctt gttgaaatca tcttttcctt ggtcacactg gttccctcca 660
atactatag 669

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<210> 1138  
 <211> 667  
 <212> DNA  
 <213> Rattus norvegicus

<220>  
 <223> Genbank Accession No. AI230759

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<400> 1138
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aaaggctggg catttctgca acccagccct acccctcggt cctgcagcct cggctctgtt 180
ctgaacctgt tacagaggca gtcagtacta tgcttggcca gccagaggca tccagttaca 240
gattccccca caaacccag gccctgagtt tggattctt tctctctgtt cttgctagga 300
aagagatctt gaggcccagg ccacagaggc aagaactctg gtggtaactt gagatgtagt 360
ttggctagtt tcttaaggcc caggcacccc caaaaaagcc ctgggtgtggg ggatgagttt 420
cagtgccctt atgtaaaatg cacgggtaac attaaacaga ctgagccagc ttaaccaa 480
gcctgaataa cactaagctg taaagaaagc aaggctcagac ctgcttacac caggccagac 540
acaaaatgcc ggaagctcaa ggtggagtg caaacacaac ccaagggcac tgcccaggag 600
ctaaaagcct atactcagga gccctgggat gacaagaagc aaagaaagaa aatacctaag 660
tcttaaa 667

```

<210> 1139  
 <211> 463  
 <212> DNA  
 <213> Rattus norvegicus

<220>  
 <223> Genbank Accession No. AI230951

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<400> 1139
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agcccgggtgc agcattcttc cccagagtag taagagcgag gaggaaggaa aagaaccgtc 120
ttcacctgct cctgaggagc caagcccggc tcagctttct ttaaaagcaa acgaagccat 180
ctttggaatt tgcagactaa gattccaacc gtagctgcct tccaggtgcc ctgaggcctg 240
tgccagcctc cctgtctgca ggggacctt ccatcctttg tcatccttga ggccctgagg 300
ttgaccctga aactctcacc acagccggac tcagacctct catgcttcag aagggttca 360
ccaaaagggg agtttagacc acgtggggcg agccactgcc aggcaagatt taaggcaaat 420
ttgtcacttc atattcggtc cagccagac ctaaatctgt tat 463

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<210> 1140  
 <211> 296  
 <212> DNA  
 <213> Rattus norvegicus

<220>  
<223> Genbank Accession No. AI230956

<400> 1140  
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aacaatgata tcataaaaaa atgctctgct ttttaaattt ttaaacttca atacaatata 120  
aattgaaaca aaatagtatt gtatagtctt ttaggaggca ataagccatc attattagt 180  
tggtctgaacc tccttatcga taaccagggtc caggttgggt atagccctga ccaaaaggag 240  
gacgggttacg agcttaagggt ttagcccccag tggaaagagg ggccatgggt cttgca 296

<210> 1141  
<211> 596  
<212> DNA  
<213> Rattus norvegicus

<220>  
<223> Genbank Accession No. AI230981

<220>  
<221> unsure  
<222> (1)..(596)  
<223> n = a or c or g or t

<400> 1141  
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agcgggggtaa ggcaccactc tgggacagta aggtagctcg cagtaacaag agtcagcacc 120  
acgagtgggt gctcagcaaa tacttgaata aatgaaaacc ataattagca caattctgtt 180  
cactgccagc aattcttcaa ccccaataaa atatctatta aaaccagtt tgtacctgaa 240  
tgcagattcc tgcttttttag ttcataccct ttcttcagtg tttacatttc cttgaaaaat 300  
taaattaaaa ccatacttta tgtgtactca gccacagaca taattgaatt actgacagcc 360  
atgaacagat tttaagtga cagagggtcag ataaagcaaa cttgctcagg atagcacata 420  
atactgaata tgaacctaca aatgaaaata ggtaaggaaa agtaacagtt ttgtttttta 480  
atatttgcta atttttttaat gccttagttc ttgagaaagg ccaaaatctc atgttgacat 540  
gaacacattt taaaaaatgg tctcttaagt gtaatannta ataaaactag gtattg 596

<210> 1142  
<211> 454  
<212> DNA  
<213> Rattus norvegicus

<220>  
<223> Genbank Accession No. AI230988

<220>  
<221> unsure  
<222> (1)..(454)  
<223> n = a or c or g or t

<400> 1142  
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ggggtagcaa agcccgact aacttcataa aatacaaaat aaggagagg tgacgggagg 180  
gagatttgta aaatacaata tcttaggggt tcggcaataa taaaaataa ggttcattat 240  
ttacaaacga tttctgttct tgggtctctgt acagtangaa agtgggggtg tgtgtttgtg 300  
tgtgcatgtc tgcttggtg tatgtatatg agggggccag gaacagtggg tgcgttggtc 360  
actatggaaa ggaaacagg gtggcccgat gagggttgga ttggaggagg acggatagtt 420  
gtgggaggaa aaagtgggaa cagagtgggt ggcc 454

<210> 1143  
 <211> 527  
 <212> DNA  
 <213> Rattus norvegicus

<220>  
 <223> Genbank Accession No. AI231007

<400> 1143  
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 gacacccaag gtttttgtaa aacattatca aatatatatac cagacgattc ttccctagaa 120  
 gaaaaaaca tctttatgcc tgattttaaa agttgaaaa gaggtggatt tttcctttat 180  
 ggtgctgaaa ggaaggatgg agaattgagga gaaaataaaa ctgtgaggat caagactggc 240  
 atcttgctcg tacttatttt caggacaact ggggagaacc tgctgatttc cagagctgat 300  
 ccagcctgg gacttcggga aatcactgag cacacagccc atgtctgccca tattgggttct 360  
 actactcagt ccctccaaga ctgtttcata actgagagggt cattagcaag tgcattgggtg 420  
 ggcagagggtg ggacaaggct gaatggccaa ctgaggaatc tctgcacttt ctgattcaac 480  
 aaggtttaggc catcacagcg aggttcttca gacataagac aggagaa 527

<210> 1144  
 <211> 327  
 <212> DNA  
 <213> Rattus norvegicus

<220>  
 <223> Genbank Accession No. AI231010

<400> 1144  
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 ctgtcagggg gagccttaac cactgataag gggtcaggac cgaggaaatc cacgcttttc 180  
 ccaggagtgc agggactttt ccatagtcca agccgctttt gtcaggcttt gagcgttgag 240  
 tccagggtctg gggggaaaca agccttatac ccaaccttgg tatctttctt tcgatagtac 300  
 atgcgtgtca aactgtcaa caggaag 327

<210> 1145  
 <211> 618  
 <212> DNA  
 <213> Rattus norvegicus

<220>  
 <223> Genbank Accession No. AI231011

<400> 1145  
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 aggttattta caagttgttt acagaatgaa cgggtggggc tgggactatc ccagtggtat 120  
 cagaaccac agacacacag ccatgttcac agcctgacat ccaagctccc acacaccga 180  
 cctctgaggg cgggaggaag gtgctgactc agatgcctgg gagaacacat gaacttgtaa 240  
 agaagataaa gaaagacatc catgttttga tattggaact aaaatggtaa gggctttggc 300  
 cagagtaaa aactgctcag tcgtatagaa aaggcattca gctgtcacat gtgtttatat 360  
 gaaaagtaaa agaagccgc agtatccagg gttggtactg tacactgtgg tttgggtgtc 420  
 actggaggtc ttaaggcgc tatcttgga cagaacaatg gagagtggac agcagaatta 480  
 agtacacatc tggcagaagc cacctgagac cattcaccgg tctctcttgg taatgctgca 540  
 acgctgttgt ttctcacggc tatagggaca ctggcatttg gcttggtgtc cactttaaac 600  
 agcaaacacc ccaaaagc 618

<210> 1146  
 <211> 461



<212> DNA  
<213> Rattus norvegicus

<220>  
<223> Genbank Accession No. AI231127

<400> 1146  
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caaaccacgt gtggtcacaa gacataattg acagaaacag ttcaactcat agcttatagt 180  
gatgccattt ctccagcggg acaagagctt tacaggatgg tgccagggct ttcctggacg 240  
atggactgct tgggtcacat ttgtaagctc cgaggctgga gctccctttt cccaaggcct 300  
tggcaccgtt gttgaattcc atgctttgga aaggctcctt ctggtagtca gcgccaagat 360  
acgaccgcca gatctgtgtg ttcagtgggt gaacaaccgt gtttggaggg atcgaaagct 420  
aaaactgacc tctctcccct taacatccca acccatccaa g 461

<210> 1147  
<211> 523  
<212> DNA  
<213> Rattus norvegicus

<220>  
<223> Genbank Accession No. AI231140

<400> 1147  
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tctccgtcag gccgtatcag agtattgact ttggccacat ctatatcata gagttttttt 180  
cacggcctgt ttgatctggt gcttgttggc cttaacatcc acaatgaaca caagcgtgtt 240  
gttgtcctct attttcttca tagctgactc ggtggctcagt gggaatttga tgatagcata 300  
gtggtaaacg ttgtttctcc tgggtgcact ctttcgagga tattttgggt gcctccggag 360  
ccgcagggtc ttgggcccgc gaaagcgaag aaggaagctc ctgcccctcc caaagccgaa 420  
gccaaagcga aggccttgaa agctaagaag gcagtgtgta aaggtgtcca cagtcacaaa 480  
aagaagaaga tccgaacgct acccactttc cggccctcgt gcc 523

<210> 1148  
<211> 528  
<212> DNA  
<213> Rattus norvegicus

<220>  
<223> Genbank Accession No. AI231159

<400> 1148  
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gggacagggt ccgatgggcc tcccactcct ggaagaggcg gatcagggtac tcataattcc 180  
gggcccgcga ggccatgtgg tcaatgagca gcagcatgca cagggggtcc tcatccggct 240  
caaggctcag gatgagcttg cagtactcga gtgcagtacg tgggcagcca cgcttctcca 300  
agaagctcat ctgctttagt agggccagggt agaagctcct gttctcagggt ctgcggtaat 360  
ccagcctgca agtcccactg gtgaggctga acaaggggtg gaacacacac tccatgctgt 420  
acagggtctc ctcgatcagg tctcgagcca tctcctgatc ctcctgaaag cggcaggcat 480  
cactgagctg aagaagttag tcgacatgat aggggcttgt ctggagca 528

<210> 1149  
<211> 574  
<212> DNA  
<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI231193

<400> 1149

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gggattcaat gcttttttat taagaaattt ggggcccagag ttccctctct cctctctcct 60
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aggcgccaga acctctgggg tccctcttcc ttccttctcc ccagatcttg cagaaacacc 180
caagtgttcc tcagcagagg gtgaagcgtc tggcactgat gttcatgctc gtgagtccca 240
gatgccgcag cgggtggggcc agagccaggc ccatcccaga ctccaactcc atctccagct 300
cggcctcatc cagaagctcc tgggtgcagg gacagacttg gtccactttc agtcgggtgca 360
gctgggcccc cagcctgagc agctgccccg ccagctgccc gtccctgagc cgcctctcct 420
gcagctcccc tctgagccac tcaagcgtg aatccatgga gtcgaagcca cagatggccc 480
caggctccac cggctcaggc ctgcttggg ctctgcacca ggcccggctc tggactttgg 540
cagtccactc cagatatgaa ggccgtcggg tctg
574

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<210> 1150

<211> 673

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI231196

<400> 1150

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tctcgcccat ctgctggcca ctgctgttgg tagtaatcag taatcacatc gcatcccacc 180
acggaccgcc ctgtgtcacg ctaagactcc tcccactcaa ggtacaagaa cccacgggaa 240
gtgaaaacgg caaactcatg agaaagaagg caaaggccta aggactgggc tctgagtgtc 300
tgctcacaca gacctcctat ttgttcctat cagtaaaacg gaataataga aatgaaagct 360
actttaatga aaagggaacg taggtatgct cattaatat aactactgga attttaata 420
taaataacct tactccctga ttagtatcag gcagaagcta aactatttat ctagaatcct 480
gggtctcagag aaaaaaggtc agagacagag aagggtgctt atgttatcag gtccatttgg 540
aaacagccca gggccttcaa gagaaccaca ctagtcttcc tttttatcgg agacctctgt 600
tggtcctttt gtggagaatc catttgtatc tgcacccttg cagtctacct tgcccgtatt 660
cctattgtcc aat
673

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<210> 1151

<211> 584

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI231226

<400> 1151

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acactgtaca ttctttatta ctgtccatac ccagtaaagt gactttgtgt gaacattctc 60
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tttcttttaga tccaagagtt tagccacttc tgcagcaacc tgggtcttgt ctgccttctg 180
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584

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<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI231547

<400> 1158

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tt 542
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<210> 1159

<211> 689

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI231763

<400> 1159

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aattccttca ccattctcct caccgtctc ttgttctact gctcacgaag tatctgctgg 180
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cgaggcagca gctcagtaaa gaagccacag gaggccttga cagtaggtgc ctccaggaac 480
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aaatctggct tccgcttcaa agcctgtgcc aggagtgtga taaatgaatc aacaatatca 600
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aaggcctcta ttgggggaaa gtgggcaag 689
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<210> 1160

<211> 664

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI231792

<400> 1160

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0991800.0310

ttctccgcgt agccccctcat ctgcgtccacg cgtgcccacgt tgcgcctcgat gcgttcggtg 540  
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<210> 1164

<211> 712

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI231801

<400> 1164

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caaaacacga tctgcaacat tcccggcacc tgaagaactg cccctttcaa cagccaaggc 660  
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<210> 1165

<211> 591

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI231805

<400> 1165

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accaataaac acgaaaaacc attttcgact atgtgctacc ttcgcttgct tatgcaggat 180  
ccaaagaatg caggcaaacc ctaaaaatgt agcagaagca tttccgcaca ctggcatcaa 240  
aatcgagtgt gtgcagaagt gtttccacta gattcataga gtgttctttg gaagaaagga 300  
gcagcgagta atcatctggt cgctctccgg actctctgca gctcctcaac aggcctccat 360  
tcctgggttg tggttaaaag cttttggggt tgagtaggat ccaccgtttc ccaaggttct 420  
gggtttcttt ttcgatcaat aaccacgtcg gtttttttca aagcatacaa agcaaaagat 480  
gaggtccag tggctgccgc gcttataaaa aacgccaaag gaatgagttc cttatttttc 540  
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<210> 1166

<211> 574

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI231808

<400> 1166

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ggggtgggga ttttctcccc acaaataatg actactatth atttatgtgg cttactacgg 180

gtataattat atagtttttg actttaagaa caagaaatca aagtattcag aagagacgtt 240  
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 cttcttgctc ttccagagat atggaatttt tgtggggaga tttatggttt gtgttttcat 480  
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<210> 1167

<211> 578

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI232006

<400> 1167

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 gatctcctct tectcatcac tgccgaacag gtcaatgtca ttgtcctcgt cgtcctctgc 180  
 tgggtgtggct cctttcttgg ctgggggctc cacttgacgc ataggagaga catgttgggt 240  
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 caacttgaa atggcctgct gcaaactctg caccacgcct cgaaagtctt ggttctctac 360  
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 tccagggcct gaacttccag ccaaggattt ctggatgttc tctctggctc ttgcaatgtc 480  
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<210> 1168

<211> 586

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI232065

<220>

<221> unsure

<222> (1)..(586)

<223> n = a or c or g or t

<400> 1168

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 agcaagaatg atgacatggc ctcggggtag tcatctacac tggctttgat tttatgacct 240  
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 ttagctgtat tgccatggaa acttttgaaa gatggggagc ttgcactcga atcactccct 480  
 gaggaacgtc agcaccattt gcagctctgn cttgcttttc gtgtttttcc cggtcatacg 540  
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<210> 1169

<211> 582

<212> DNA

<213> Rattus norvegicus



<220>

<223> Genbank Accession No. AI232087

<400> 1169

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tcaaaatctt cctctttttt tttgaggtca gctactgtca ataatggaca ttaggcaata 240
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tagtgtacat aataatcaaa tgaaggtaat tggcatgtca caccagatgt aactatttcc 540
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<210> 1170

<211> 539

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI232103

<400> 1170

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<210> 1171

<211> 486

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI232209

<400> 1171

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tctttatttc tgtcttaatt gctatggttt aaactgacca gtaagtcctt accctgcgat 240
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gcaaaagtag ctgggaactt agatcctaag agcatagcac tgtacaactg gcaaatagtc 360
agtcacactt gggactcagt ggagacaaat aaaaagccaa tcacagcaaa gtatacatca 420
aactctcaag tgcagcgact tgccaagtgc cagaactttc tgtttgagca aacggtactt 480
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<210> 1172

<211> 564

<212> DNA

<213> Rattus norvegicus



<212> DNA  
 <213> Rattus norvegicus  
 <220>  
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 gattttctggc taatgatcat cacagggtct ataatacaga acagagagga gttttctaac 240  
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 caaaaagatt tcttttagtg aatcactttg gaaagagtaa caaacagggtc tctggattcc 360  
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 taataggagg cacaagggtat gcctaactaa ggtcaagctg tgcccaccac catttgcct 480  
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 <212> DNA  
 <213> Rattus norvegicus

<220>  
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 gggctagagc ctaggagtgg ggtccattct gaagcagggt ggtctcttgg ctcccgatgg 360  
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 tccagacaga tggcacagac atcatactca tctccttttt gataatcatg agtaggaatc 540  
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<210> 1177  
 <211> 601  
 <212> DNA  
 <213> Rattus norvegicus

<220>  
 <223> Genbank Accession No. AI232328

<400> 1177  
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 atagcgccag aggtgtgagg ctctcgagga agccatgcga gcctgttctc aattactgta 180  
 gagggctccg gtctcactta ggctctgttg ggctcctgga agtgggggtg aagtgggcct 240  
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 gaggggtcat ggcactgtgc aaactgccat gatggtcttt ccaaagaaag ggtggtgata 480  
 tcattttacat ttttaaatta aaaaaacata acagaatata gggccagtag cacagcccac 540

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<210> 1178

<211> 601

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI232340

<400> 1178

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atttctttac aaatcgccag tagttcaaga ccgtagaggt tatctactga cactactatg 240  
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ccaccagggc cgtctgtgat cattaggacg tatccaattt tatcttggtc ccatctctga 420  
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<210> 1179

<211> 572

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI232341

<400> 1179

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<210> 1180

<211> 506

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI232408

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tttctttttt tggcattatt taaaaaaatc ttttaaatat atactcaaga gagaaaaagt 240  
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050100-0701

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<220>  
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a c a a g a c t g a	g c c c a t c c t t	g a g g g g t t g c	t t t c a c c t c c	a g g a t g c t c t	g g g c t t c t t g	180
g g c t g a c t c a	a g a c t t c a t a	g g c a g c c t g g	a t c t c t a g g a	a g t g c c t c t g	g g c c t c c t c c	240
g t c t g g t g c c	g g t t g t g g t c	t g g g t g c c a g	a c c t t c a c c a	g g t c t c g g t a	a c t c c g a t g t	300
a t t t c t t c a t	t g g t g g c t c c	t t c t g g a a t g	c c c a g a a c c t	g g t g a g c c a g	c t g a c g t t t c	360
t c a t c c t g a a	a a c t g t c a a c	a a a t t c a t a g	a g c t t t t c c c	a t t c c t g g a a	c t g g c t g c t a	420
t t g a a g c c a g	g a g c c c c a a c	c a g t a g c c a c	c a g a t c c g g c	a a g g c a g a a g	c a a g a c a g a c	480
t c c a c g a g a c	g a c c g a q a a g	t g g g a a a a a g	t t g a a c c a a c	t c a a g a a a g a	a c c a a	535

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<212> DNA
<213> Rattus norvegicus
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<220>  
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cctggattgt	ggctcctcgg	gccgccagca	gcttggtgag	cgtctgtttc	tcctctagtg	420
tgacaggtag	gataggagcg	ggcagcaggg	ctgagcccc	acctgagatg	agcacaagca	480
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419

090780-07

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agaaggatag	aatttgcttc	catgcatcta	tctgggcttt	tgagtgagcc	ctgacctccc	300	
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<220>  
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420

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605

<210> 1190

<211> 646

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. AI232700

<400> 1190

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gaggcggcgc atgggacaca agcagaggct attcaaccag aacgttttaa attcccgcatt 600
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<210> 1191

<211> 594

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. AI232706

<400> 1191

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tgactgaaac ttagcatcta tcttactgca gggaagacaa agcctcatca caccgacaaac 180
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tccaagtcct gaaaactcac aaaactagat gaaaacatgt ggtggtgtca gctgcgggcg 360
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<210> 1192

<211> 595

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. AI232784

<400> 1192

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ccttggttgc actgtacaca catctgttct ccaccccttt gatgctggag gccacggaag 540  
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<210> 1193

<211> 476

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI232924

<400> 1193

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<210> 1194

<211> 521

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI232970

<400> 1194

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<210> 1195

<211> 388

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI233081

<400> 1195

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gccacagagc agaagttaga ctgtcagccc agcatggtaa gtaattttta tatctttcca 180  
aaggcagctt atgaacaatt ccacacagct agttaccagt taatgggtgca tagaaatata 240  
tctgtggtgg tcatggacaa ccagatctag atatagtgag gatgagagtg gcattttttt 300  
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<210> 1196  
 <211> 549  
 <212> DNA  
 <213> Rattus norvegicus

<220>  
 <223> Genbank Accession No. AI233147

<220>  
 <221> unsure  
 <222> (1) .. (549)  
 <223> n = a or c or g or t

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 ccagccatgt ttttagccct tgactcactt ttggagattt ggctggggta ggaaagcctt 240  
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 ttgcctcaaa aagtgcatt tattcaaaga gagagagaga gaaaaaaaaa acaaaacaaa 420  
 aaaacaaaaa caagatgtcc atcccttggc tcccttcctt cccccctcca gctgttctctg 480  
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<210> 1197  
 <211> 553  
 <212> DNA  
 <213> Rattus norvegicus

<220>  
 <223> Genbank Accession No. AI233162

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<210> 1198  
 <211> 566  
 <212> DNA  
 <213> Rattus norvegicus

<220>  
 <223> Genbank Accession No. AI233164

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 gcaaacagca ttttagtcaca cagctaaacc aggaggcctt tcttggaaca aaaaggccat 480  
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<210> 1199

<211> 525

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI233172

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 tggctcatga ccactggccg gggcaaacgg ttcggttcag ttcttttttg gggcagcag 240  
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 cagcaccagc ttctggggcc tccgggcccag cgggtgaacc caggccagcc cgagccgcct 360  
 gccaggcaga accctccagg tgggggtggat atgcctggtc ctctggggca gcagcagcag 420  
 tagcagcgac accctcagaa ccgtgggctc cagagccggc cacagagcac ccttggaagc 480  
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<210> 1200

<211> 539

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI233182

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 aagccaaagg acttcacatg ttaccacag aagtgatata cattaaaata ccacataata 240  
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 gcttaggcac aggactaact caggcaccat aaaaccctct gtcttctcac ttaacaaata 360  
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 aacggtttct tgatcatgat catacttggg taatctcaag gaatgaagat gaggattatt 480  
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<210> 1201

<211> 537

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI233190

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taacgtccct ttttgccctg gtaggggctt aacaaacatt aggtattggt ctagtcttac 240  
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 tcatctctct cgctctcgta cacttcaaag atgggtgtgg acacacttac catgctgtgc 360  
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 ttgatgagtt cgctcatatt cacgtgatca ggtacaagga acttggctct gtccaggacg 480  
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<210> 1202

<211> 596

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI233262

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 gctgaagagg tgacctatag tgaccattc ctccatgtct tccttcaggg gcagggcatg 480  
 tagcagggta gctagcacct ggggctctgt ttttctgccc ggactggcca tcagcagacg 540  
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<210> 1203

<211> 567

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI233266

<400> 1203

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 tcacggatct ctcttgtcc agataggcac ctctcaccaa cttcacccca aatgccaggc 540  
 cagcctcgtg tgccgcctta gcatccc 567

<210> 1204

<211> 578

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI233288

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<221> unsure

<222> (1) .. (578)

<223> n = a or c or g or t

<400> 1204

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gatacacgaa acacagttct aagagggttc cactaagta catttttttt ttacacagca 180
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actggcagcc aaggctgagg ggcttgaggta ggggggctga ccacggctca tggctcaggc 360
aatgaggggc ccaggcttcc tgccctccctc ccctctctgc ccacagcatt gattgcattc 420
cgtttcttcc acttttccttg ttctttccaa aaccacctga caggggttgt cctgacttct 480
gaggtaggct tcttgtcagg actgcttctg tttgcccttc tgacttccac ngcacaagat 540
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<210> 1205

<211> 474

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI233300

<400> 1205

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ggccacgcag cagaacttcc tcaggcattt tcacagccat ttagaaagat gtcttcagcg 360
aactcgacca aattagctac aaacgcttgg caggatggac acgttgtgtc tgtgggcca 420
tattcaatcc aggtggagga atctagaggg tatatatact tgaaactgaa attg 474
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<210> 1206

<211> 425

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI233323

<400> 1206

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<211> 469

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI233361

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agctggaagt gcgtgcagag tagcagagag gaggtttgaa tgatgcagat ctaagtatat 360  
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<211> 124

<212> DNA

<213> Rattus norvegicus

<220>

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<210> 1209

<211> 424

<212> DNA

<213> Rattus norvegicus

<220>

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gtgtaacaaa cacatctgca gtgggatcgt gtggaagaat agtctttggt tctttcttcc 360  
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ttac 424

<210> 1210

<211> 551

<212> DNA

<213> Rattus norvegicus

<220>

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cactgcagtc aggaggcagg gaggagacag cacagccccc accagtttct gcataggagg 180  
catgctggga gaacagaact cgaatgggaa gttacagaag aataaacagg agaacaggaa 240  
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gttcctgagg gactgaatgc acagagccga gaacgtcccg gagatggggg accacgaagg 360  
gtgtattctc atgcacaacc gcagctcgga atttcagccc acacacattc caccttgaaa 420  
ctctgtgttg tcaaggcccc tgatggcctt caccgcatct tctgccgct ccatgtgtac 480

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<210> 1211

<211> 475

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI233468

<400> 1211

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tgagatcacc ccaattaatg gggaaaagct actgtacagc aggtctccag taccttgcaa 180  
actcagaatg cacaaggcct tctcttacct ataatacatg agtgcagctt aatttctctg 240  
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cacaaatgtg aacgtaaate acaaatgtga acgtaaatec agagtgttaa gagaagtaaa 420  
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<210> 1212

<211> 401

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI233480

<220>

<221> unsure

<222> (1)..(401)

<223> n = a or c or g or t

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gagacacagt ttgggaaatc caacccaacc tgtttaactg ggaatggggg aactttgctt 180  
gaagtccacc agatccagga ggaaaaagct gttcctttcc tctccagtgt gaaccttggg 240  
ttcatgtttg atattacgtg aagcataagc atgtatgagg tacaggtcat aaaacgctgg 300  
ggacctttgg gagcaggacc ttatggggag gggaaggagc agagtatcag aacagtcact 360  
catacatgaa gcaaaatcca actganggtt aatgggggag a 401

<210> 1213

<211> 411

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI233494

<400> 1213

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ccatccactt cagcctcgtt gccctagcat tcccctatgc tggggaatca agctttccca 180  
ggaccaaggg cccctctccc attgatgcca gacactgccc tcctctgcag catatgcagc 240  
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 <211> 501  
 <212> DNA  
 <213> Rattus norvegicus

<220>  
 <223> Genbank Accession No. AI233570

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 tcagggcctg tgctctcctg cgggccactg ggcagctatg ctgaaaaccc agagcagtga 180  
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 ccagcccgtg ctaagactgc tggaccagcc atgcccacca ccttggccga ggctcagaca 360  
 atcatctcca gctgccgggc atactcgatg acctgcctgg ccagctcagt ggaggggatg 420  
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<210> 1215  
 <211> 345  
 <212> DNA  
 <213> Rattus norvegicus

<220>  
 <223> Genbank Accession No. AI233583

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 gactttcaac aactctcatg tacgaatcgc cggcggcgtg gggcgtggga tgaggggggt 180  
 ggggtgcatt acaccagcta cggctgtaca caggagcatc cgtcacatgt tcaccttcag 240  
 cactttccca gtctgccgat ctttctccac acagtatcag ctgtcataga actctgtgaa 300  
 agtggttgct agctcataaa tggaatcaca cagagtgtgg agaaa 345

<210> 1216  
 <211> 442  
 <212> DNA  
 <213> Rattus norvegicus

<220>  
 <223> Genbank Accession No. AI233639

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 gcattccaca aacatggcca catagtagta catgaacata gtcttgattt agacaggtaa 180  
 gaaggatcag attaagtgcc acaaatagtt aactaaattc caaggaaata ttgcttttgt 240  
 aatgtgaaca atttgattgt atcataatac atattatttt aaaaaacaaa ataaaatttc 300  
 tcaatcacgt ttcttcttgt ttctgggcaa ccaacatcct acagagcaac aagaaacggt 360  
 gggaggaggg agaccaaaat gtaagctcgg acgttaaagt taaggctact ctgaccttag 420  
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<210> 1217  
 <211> 603  
 <212> DNA



<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI233714

<400> 1217

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aattttacatc agtaccacaaa tgggcaagaa aatgaaggca caggctcact ctgtatcaat 180
aaaggaagtc aaacacagtt gtgaggcact aatgacataa gcatagaagg tcaatcaaaa 240
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tcttgatatt ttttaatacct cagagagaaa aaaataaata aataggagat ggtgcattaa 360
aagggtcaagt tacctgtaat tagtcttttag aaataaaaaga gatgaaactg aaacacagac 420
ttctacagtc ttagattacc cttcctttgt aaggatcttg tgtgtctgtg tagaaatgcc 480
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atc 603
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<210> 1218

<211> 556

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI233717

<400> 1218

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tggagtttgg tttctgacac ccaaatacagg tggccgacaa cctcttgtaa ctctagctcc 180
aaggacccca cccccacccc catttggtgtg tgccatggtc atctgtatat gtggcccata 240
cacaataacc taagtaaaac taaaatttaa aaagattatt tctctgtggg tgcatgtgca 300
tttgacacac tgcacatgca aatatgtgtg gctgccaggg gaaaccagaa gtccacaagt 360
gctctcaact gctaaaccat ctctctgtcc ccacttagga gactttacac gtctgggtatt 420
tctgggatag tttcagaact aaaacattct cttcagattt taagcacagg gttgggagtg 480
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aacagaccct cgtgcc 556
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<210> 1219

<211> 687

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI233729

<400> 1219

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taccgaagat tttgaggcaa aatcagataa ggaaaaagaa aatatggtta agagaatcca 180
gaatcatttt ggcttcattt tagtttttaa caagggtcaag agtgtacca tggaaacttt 240
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gtctgtctta gacggaatca gtcagctcct tctacggctg ttgtggcaac aggtttcacg 540
tagtatggcc cttcacttag gtacgttctg agcctcaaat aatttgagtt cccaaagatc 600
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687

<211> 609

<212> DNA

<213> Rattus norvegicus

 $\langle 220 \rangle$ 

<223> Genbank Accession No. AI233731

<400> 1220

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tcagctaaat	gttcaaactt	aaggctgtca	tggacacagc	aattccatag	tcttctttaa	180
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cactgtcata	gcctgcattg	tcagctatga	tcgttggcaa	cattctcagg	gccttagcaa	540
atgactccat	tgctacggct	tcttttcctg	gggttctact	ggcaagcatt	gtcacagcat	600
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<210> 1221

<211> 587

<212> DNA

<213> Rattus norvegicus

 $\langle 220 \rangle$ 

<223> Genbank Accession No. AI233766

<400> 1221

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gcttcggggc	cgtttgatct	tctcaatgtt	tttcaggatc	atgtcatgga	gcgtgacata	240
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tatcctggga	atcaagagct	gaaccacat	tttgaccgtg	ttacatttct	cgatcagcag	540
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<210> 1222

<211> 389

<212> DNA

<213> Rattus norvegicus

**<220>**

<223> Genbank Accession No. AI233806

<400> 1222

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acagtgtaac	catctaaaaa	taagacatcc	cggaaacaca	ccaactgagg	agaaatttaa	120
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tttaaaaaaa	tagaaggaga	tttagcagct	tttcgctcgt	tggcagggtg	gttctcttca	240
ctgccacagg	ctgagaatgc	tgaacaggaa	aggcaccaa	gaaagacact	ggcgatgggt	300
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389

<211> 563

<212> DNA

<213> Rattus norvegicus

 $\langle 220 \rangle$ 

<223> Genbank Accession No. AI233818

<400> 1223

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atcaaaatac	catctgtaaa	gaacaggact	cacttcgatac	tgcatatgaa	ttcgggtccag	180
catagaagag	tacaatacaa	aaaacgtaca	acagatttcct	tctgcattag	gaaacatctc	240
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aggagacttc	tttccaacct	ggactggatt	agcaaaaagg	ggggaaaaaa	tcattggtaat	360
attgggacat	cctggatgtt	tcaaaatggg	gtttttattt	ctgagctcgc	tgtgcatagg	420
aaaacaacca	ctttcagagg	actagaagcc	cacagatcta	agcatcagta	aacttttaaaa	480
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<210> 1224

<211> 516

<212> DNA

<213> Rattus norvegicus

**<220>**

<223> Genbank Accession No. AI233828

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gcattttttg	tgcttgcgag	tgataggga	tgctaccccc	gtggggccagc	accacctgag	480
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<210> 1225

<211> 561

<212> DNA

<213> Rattus norvegicus

 $\langle 220 \rangle$ 

<223> Genbank Accession No. AI233835

<400> 1225

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ccacctttctc	tggcaaatca	ggaaaaactc	acctcaggt	agctggagctt	gatcttctta	420
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<210> 1229  
<211> 516  
<212> DNA  
<213> Rattus norvegicus

<220>  
<223> Genbank Accession No. AI234038

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<210> 1230  
<211> 319  
<212> DNA  
<213> Rattus norvegicus

<220>  
<223> Genbank Accession No. AI234079

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gcatacattt gtgtttatgt ctattccttg agaatgttac gttagcagtg cataaagttt 240  
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cagataaaaa tcccaagag 319

<210> 1231  
<211> 530  
<212> DNA  
<213> Rattus norvegicus

<220>  
<223> Genbank Accession No. AI234090

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<210> 1232  
<211> 564  
<212> DNA  
<213> Rattus norvegicus

[illegible]

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<212> DNA
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<220>  
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435



<212> DNA  
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<220>  
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tgtctgtgct actgtaagag aaggagagaa gattattaca ataaataaaa atagagatgt 180  
aacagagaaa aataaatcag tctagatgag aagtattagg agcaacagaa atttcattaa 240  
gcagttttaa aataagcttc tttaaaaagg ttgccttatt aaaataaatc acaccaaaaa 300  
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gtggatcatt agccaaagca gtagtactca gaatccagct tgggatgctt gtgcagagct 420  
tgagagtcct ctatgataga gctgtcactg aactgatcca agtctgaagg ggtctgatgg 480  
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<212> DNA  
<213> Rattus norvegicus

<220>  
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aattggacca tgtaaagtgt cactgctaaa caacaactta aaaacgcccc ttcataaagt 240  
gaccaagcta ttctgagagg gttgatgctg acatgtccag taatgatgtt acaatttgta 300  
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tttaaaactt aaaagaatat ctcaacctga ggagtatttt aggtcccaaa tccagttttt 420  
taattttatac tccacaaaag agagagagag agagagagag agagatgggt tgcaaccctt 480  
ggcctatggg ttcccaggc 499

<210> 1240  
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<212> DNA  
<213> Rattus norvegicus

<220>  
<223> Genbank Accession No. AI234830

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tcacagcact tgggaggctg gggccagcct gggctacagt gtgaaatttt gtcacaccct 180  
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gctttgggca ctttcatgga cagtttataa aggtcgtctg atgctaagtg tgcctcctc 540  
acaaccagat ccaacgacgg cccatctct tctagctcga ttctcgggtg tctgcacca 600  
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<210> 1241  
 <211> 575  
 <212> DNA  
 <213> Rattus norvegicus

<220>  
 <223> Genbank Accession No. AI234843

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 gaaaagccca ctgtccctcc atgctcagac agggccactt tcacacacta gcctaactcc 180  
 taccttcttc atgcagcacc atcaccacta ccaacctcac agaattaaca tgcagagacg 240  
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 gtgatgcgca ggacagatga actggctggc acaagctagc ccagaatctt tggccagggtg 360  
 gaatgattca catactgcct tcacggtgtg gccctgttg gtatctcttg ccacatcttc 420  
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 gtgccgcttc atgcagtaat caggctctggc ctcaatggta atccctatgc actttgtgag 540  
 gcttctctcg gaataacttga ttgcctcctc gtgcc 575

<210> 1242  
 <211> 477  
 <212> DNA  
 <213> Rattus norvegicus

<220>  
 <223> Genbank Accession No. AI234927

<400> 1242  
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 ctgcactcag ttttgaactt tcggcagttt cccatagcct cctccattca ttaatttaga 180  
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 taatacagtt cttacctaat ttcctatgcc ctttatgccc ctttgcccct aggagagctg 300  
 accccagacc tgtgagaatg ggggagctgg ccctgcacct cacctgagta gcacagtaga 360  
 gctgacattg gctgcagggg cagagtaagc caggcctgag tttgtgagca tgggagagct 420  
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<210> 1243  
 <211> 484  
 <212> DNA  
 <213> Rattus norvegicus

<220>  
 <223> Genbank Accession No. AI235046

<220>  
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 cagcaggctc tgggttggtc cacaggggac agcagggcct tggagccaat gtgtggngnn 180  
 gngngagaa gtgggngnng nggttccttc ccggaagtct ctttccttgg cagtctgact 240  
 ccggggggcc aagtcaagtg gcgctgtagc agacaggcca aggaaaggga aaattggctt 300  
 tctgtttaat tggcaaatgt tccagtggga gggctctgtt ttggtgggat gtgttacagt 360

atatgtacat gtctatggac ctgagtccttt aaggaattta tacatgggtc agaaaagatg 420  
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tcca 484

<210> 1244

<211> 486

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI235224

<400> 1244

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tccgtggcag gcaggcaaag tgatcgctct ggtagccctt ctcagagccc atgaggatct 180  
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gcagaaagct gtctgtgggt ggggttggggc acagctacag gctttactgg aagctatcaa 420  
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agcgtg 486

<210> 1245

<211> 623

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI235234

<400> 1245

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cagtttccag taatatctat tactctattc agaattaagt cttccacaga caggttacct 180  
ggaaataaaa gcctgttaca ataagcaaaag ctttaaccag aatggctact tgctgtgcca 240  
gaaaaaagct cattcctata ggaggaatga tgtgctgtgt aaatggccac agatctcagc 300  
cttagcggca ctggaagtct attatccaat cccgcattga gtagtccagt gaattttgaa 360  
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tcacaatgca attctgctat cagaattaca tgagactctt tgcttaggtt ttaattagca 540  
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<210> 1246

<211> 442

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI235277

<400> 1246

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gtgcccact tagccagatc aagggaaccc caagagagca ggggcaaata ctgcctcttg 180  
tgccaagcct cagggcaggc aatcctggag aacactgccca gccttgggaa gcttgggaga 240  
cctctaggct gttttccctt cttttcaaat cccacaattt cctgacgggg agaagctgta 300



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agtgttccc gatgtgagat aggagggtag aaccagttag ctggactcac cgaagcacao 420
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taatcttaga ttcattgctg acatcaaact c 571

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<210> 1250

<211> 430

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI235360

<400> 1250

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<210> 1251

<211> 362

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI235460

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cccagccaaa gccccttctc ttgcgctgta ggttggcccc acctggagca aaccttagct 300
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<210> 1252

<211> 499

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI235584

<400> 1252

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 <212> DNA  
 <213> Rattus norvegicus

<220>  
 <223> Genbank Accession No. AI235675

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<210> 1254  
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 <212> DNA  
 <213> Rattus norvegicus

<220>  
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 <213> Rattus norvegicus

<220>  
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 <212> DNA  
 <213> *Rattus norvegicus*

<220>  
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 aagcctcccg agattcccca agatcaacat aacacttggc cacatacata tagttggaca 420  
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 <212> DNA  
 <213> *Rattus norvegicus*

<220>  
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 tatatcatga ggaacgtgac aaaaaaagca aaaaaaaaaa acccaaaaaa caaaaattcg 240  
 aggctacttt atgaggttgc atgaaagagt cacatgttcc cttaatcttg tgatttaaat 300  
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 tgaggtggag gtaggagata ggggttgagg gctgactatt ggcaaatatg ttataggctc 420  
 cattgctctt ccatagaaat ctttctagac ctttgctgaa gcccaaccac gcaggacttt 480  
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 aaatagcata ggagctggaa tttgaggagg ccagaacagc ctggaacgtg tttctcttgc 600  
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 <212> DNA  
 <213> *Rattus norvegicus*

<220>  
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0917800.07310



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<210> 1262

<211> 454

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI236066

<400> 1262

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<210> 1263

<211> 687

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI236084

<400> 1263

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<210> 1264

<211> 292

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI236089

<400> 1264



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<210> 1265

<211> 548

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI236106

<400> 1265

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<210> 1266

<211> 612

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI236146

<400> 1266

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<210> 1267

<211> 503

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI236227

<400> 1267

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tccgacatac tttctcattt ttgtgaccac atctccttgt tacaggtgtg aaacttaaac 180  
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<210> 1268

<211> 398

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI236294

<400> 1268

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caggtgaagg gttgggcaaa caattcagct ctggtgagct ctgccacgcc cactgacag 180  
catctggtac agactaactc aggcgtggaa aacgagccaa agtccagagg caggagccca 240  
caaggggaac ctgaagaagg gaggacagct catcctgatc ctcgatcgaa gtttttagggg 300  
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<210> 1269

<211> 529

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI236301

<400> 1269

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aaggtcattt caaaaggaaa cctcctgatt acttcagggg gagtgccaac accactggga 180  
accgaggaca taaggcagga acatggctac cacatgggtg gggaaatggg tgctgatgga 240  
atccgaaggg ttgtgaaagt caatcacgtg gatgtcgaac accagcacag ctgagccag 300  
aatgctccct cttccttctt ctccatagcc caggtgagga gggaccacaa tccttcgcct 360  
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aatgtacgtg tcaaaggtgt gggtccgtga atagctggag tcaaagaggg tgccatccag 480  
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<210> 1270

<211> 499

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI236302

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ttcagcaagc agcagcttca tgtcctttga tgaggacaaa gccatgattt gtgtgggtgg 180  
ctaagtcttg gaaaggaacc ggcagacaga tggctttcct cgggtaacac gctactttta 240  
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gtctcctttg taatagtga aacaacctct acatatgggt aaaagctctc ttgacccccg 360  
tctttccagt agcgctccgt gtcgaaggac agcttatagg tgcctggctt catctggctt 420  
tgtgtcagga gccaggaca ggcacatcc aggtttgtgt agcttggtct cagctccatc 480  
cactgctgac tgggggcct 499

<210> 1271

<211> 575

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI236332

<400> 1271

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aaagatgttc aagaattctg cctccaaaacc acatacatga ctgccatttt aaacagaccg 180  
aatttcaaac atgcaacaac gccactggta ataaagcttt ggaatggatg ctactctat 240  
tatttcacta caaacgagat agaaagccgg cgagttggaa attttattct aaagcacaat 300  
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gcctcggtaa tcactcatca caaagaagtc ttcaa 575

<210> 1272

<211> 552

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI236338

<220>

<221> unsure

<222> (1)..(552)

<223> n = a or c or g or t

<400> 1272

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tgcgcgctcag gc 552

<210> 1273

<211> 500

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI236366

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accaagctgg ggctgectcc cctgacgccc gagcagcagg aggcctcca gaaggccaag 240  
aaatatgcaa tggagcagag catcaagagt gtgctggtga agcagaccat cgcccaccag 300  
cagcagcagc tcaccaacct gcagatggca gctacgggca gcgggcactg gctatcatgt 360  
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<210> 1274  
<211> 542  
<212> DNA  
<213> Rattus norvegicus

<220>  
<223> Genbank Accession No. AI236461

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tggtaatcct agtagtgagg aggtagactt aagaggatga gtcctcggcc agcctctgtt 240  
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agacatcaga aaagcaatta aagaaaaaaa aaatcacaaac catctggaga aacattcttc 420  
ttaatctaata attaatgctt gcctgtaaat tagtcttaca gttgatgcta tagtgaggat 480  
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ca 542

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<211> 321  
<212> DNA  
<213> Rattus norvegicus

<220>  
<223> Genbank Accession No. AI236473

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aagtttgaca actatgcaca catagaacat gcggtgtgtt aaaaaacaga acaaacaaaa 180  
acaccacccg attctgtaga accagcatca tttcaccagc gggagagcac caagcaaggc 240  
accattggaa agacaacaca cttggaaagt ctctataaat aaagcaaagt ctaatctggt 300  
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<210> 1276  
<211> 490  
<212> DNA  
<213> Rattus norvegicus

<220>  
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<211> 439

<213> Rattus norvegicus

<223> Genbank Accession No. AI236566

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cagcagcaag	ggctagagac	agaccacagt	gaggagaccg	caggtcctga	gggttggggc	180
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<211> 526

<213> Rattus norvegicus

&lt;223&gt; Genbank Accession No. AI236590

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gcccaaatgc	tatcacatta	ggggcctttc	tagactttgc	tttcaatgat	tggagaaaag	480
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<211> 567

<213> Rattus norvegicus

<223> Genbank Accession No. AI236599

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<210> 1280

<211> 625

<212> DNA

<213> Rattus norvegicus

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<223> Genbank Accession No. AI236601

<400> 1280

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<210> 1281

<211> 481

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI236679

<400> 1281

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<210> 1282

<211> 519

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI236746

<400> 1282

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ataatacaat atgtggctag ctgaaattgt ctatcacata gcatttaaga tataaaaggc 180  
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gaataaactc aattttacct ttggcaaata atatccccc aatgtatatg caactcaaag 480  
aactcagagg ctctctagac aagcttctga tcaacacag 519

<210> 1283

<211> 652

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI236753

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gttgaatgca tcaagctagc tggcccatgg tcaaattttc ttctgtact aaaatgtacg 360  
gcagcaatgg gataaatctt aggttaacag tatattcaga tgcactgtgt atagcaataa 420  
aaagctccag tgatgtttct tttctaaaga cactactgtcc ttctggggag gtgggatctg 480  
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<210> 1284

<211> 420

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI236761

<400> 1284

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gttttgttac attgcagatt ttaatgtatt taataaatgc aacatgcaga ttaagtgcag 300  
tgtatactga gtatttaaat taaaatgtac atttcataaa tacagtttca agagaaagca 360  
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<210> 1285

<211> 522

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI236771

<400> 1285

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<210> 1286

<211> 655

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI236772

<400> 1286

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tccatctggt aacattggaa atcatgcaaa caactgagtc aaggcatggc attaagggtga 240
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aagagcaaaag tgcacatatt gtcctaacca catacatata aaatattcaa ggccacagat 420
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cgtggaccac actgcctgcc acaaggaact cctcactgag ctgacgtcac catcatcaaa 600
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<210> 1287

<211> 571

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI236773

<400> 1287

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aatacgtgtt tatatacaca cattcacatc cttacatata cgcaccagga actcaggttc 180
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ataacactcc tgtgaggtgt cctcaaaaca catctgagga taccctgttc tcaaagtatt 480
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<210> 1288

<211> 446

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI236947

<400> 1288





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<210> 1292

<211> 441

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI237124

<400> 1292

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cagacggtgg aaggaacaaa aaccaggccc aagcgtctgg ctttacattg caaataggga 180  
caggggtgggt cttgcctttc agaaacaggc ttggcagata ggcaaactaa gaagtaaaaa 240  
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gcaagaaagc acccggccct ttgggatata caaatattta tcagattctc tttgcttgtt 360  
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<210> 1293

<211> 451

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI237159

<400> 1293

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ctgacaggat ggcaccgctc tcacaccaac cggaagtga atcttaacat tccaatgatc 180  
tggaagggtc ttggtaaact ttagaaactt ttgtttttct tttagccact agatttttca 240  
ggaaaaattc acctgcttta tatgaagatc gcaccaaagg gccacttgca gtgtagtga 300  
atccaagttc atttctact tcttcccagt atttgaactt ctcaggagta acgtactctt 360  
caaccttaag gtggcgcttg gtcggctgca tatactgccc gagagttaaa cagtccacat 420  
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<210> 1294

<211> 471

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI237189

<400> 1294

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aaaaacattc actctgacag ttaacatttt tctaaatgta acaatttgaa gttttctaac 180  
cactcactct aacatacagc cagatacttc ctatgttctt aaacaaacaa aacaagacaa 240  
gacaaaacgg aacaggagggt attactctga agcccccttc cccaggaggaga gtagatagga 300  
cttgtgaaga gaaacccttc cctttagcca gtatttttat tccctacagg cttcgcaaaa 360  
gcgttgtaaa caatgacatt tggctttggt gacctgaggg aaaggcaaca ttgacttaaa 420  
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<210> 1295

<211> 545  
 <212> DNA  
 <213> Rattus norvegicus

<220>  
 <223> Genbank Accession No. AI237207

<400> 1295  
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 agagaaagaa ggggaaaaat aataaaactt aaattcactt ttactttttt gcacgttcac 180  
 aagcattcac cgtacgtatt ctcttttagt tttttttttt cttttataac cgctgtgaat 240  
 tgtacatttc tgtgggttatt tttatcacc ttttgagat gcagttaaac tttgaagctt 300  
 aagtgtgacc agactgtaag cggaagagct atagtgaatc caactttaga gggtacgttg 360  
 tgacaagcga actgtttttg tttctgaagc tttactaata taccagagca ttggcgacgt 420  
 tgttttacat ctgttggtta aaatagatga ttataacagg gcggggaact ttttctctgc 480  
 aagaatgtta catatttgtc agataagtga gtgacatttc ataccctgta tatatagaga 540  
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<210> 1296  
 <211> 540  
 <212> DNA  
 <213> Rattus norvegicus

<220>  
 <223> Genbank Accession No. AI237580

<400> 1296  
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 tctcattccg tctctacttt tcttaaatta taaaaaataa aatctgacgg ttttgatttc 180  
 aagttagata aggggttgcca catttcagca ctcggaagtg tgggtcccca cctgtacaga 240  
 gcctcacatg ctacagagat ctctaaagca ccaactgcaag actgagtgtg agtgttcagc 300  
 tagaacgcc atgcctgcct tgccctcgag gtgttctttc cttgggattc gatgacaatg 360  
 acagtaattt tgtttttctc cttcagttta gacccttctg tctttgccac catttgacca 420  
 tctctgcagg cgtgattatt ttaaccagtc atttattcat ttgatagtga ggggtataatc 480  
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<210> 1297  
 <211> 610  
 <212> DNA  
 <213> Rattus norvegicus

<220>  
 <223> Genbank Accession No. AI237609

<400> 1297  
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 acatggtggg caggaagggg ttcggctgga agggatctga ggggtggtag gcgtactgcc 180  
 caatgaaaat gcagttggtt tgttactgag cactactcat gggaagagag catcccaact 240  
 cctgctctat agaacgetgg gagtgaaggt gatgcacca gatggaaaat gactgggaat 300  
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 gaccaactct cacttaaaaa gctgggggct ggtgggggta atccaaacgc tgtaacaagt 420  
 gatattcttg gaagattcaa gaggaggcaa ctcttctatg gggttgacct tcgcagcata 480  
 tttatacaca cagcgaaca cagcgaaca cacacacaca cacacacaca 540  
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ggaagcacia

610

<210> 1298

<211> 573

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI237614

<400> 1298

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cctaaaacaa atcccagata tcatatcgct ctgtgcacaa atgtttcagc ctttgtctct 180
aatatatgac cccttccctt aacaggatga taccagcatt ctgactgaaa atgttcataa 240
atatcttcac acagcaaagt ctgtcagggt cataactgtc tcatacatac tgtaagcttt 300
ctgtttgaac caggattcaa ataaggttca tgcattctct cagatgagag cattatggga 360
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gcctatctga tgatgggtca agccccgtga tctcttccca agaggcgtgg gttcagaaaa 480
gtgctatctg atgggaaaca ctttggccct ttgtaagggt ccatcaacag ttacaaagca 540
catttgaagt ctgggtcctt gtgccgaatt ctt 573

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<210> 1299

<211> 673

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI237618

<400> 1299

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agtgcgagga cttcagtggt tcatcttcag atataagggt ttagtccagt agtgctgtat 180
tctttaagga caaaagagca atagctatag gttaggaggt cactaagcta ggacagggct 240
ccaatttgca ggctcagaag cctggacatc taattatgca acggtagaaa ccaatgccct 300
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tgggttcttg aatgtgttgt ttcccaggcc caggctcctg cctgccacta gactgactac 420
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ggcaggggag tgaaagggcc aatttaata aactacaaac tgggaccagg ccacagtcca 540
cagtgatagg aggccatgca gtgtgtgaga ccaggagagg gacagcagca ggttacagcg 600
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<210> 1300

<211> 604

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI237636

<400> 1300

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ctgtcctcca gaagacaact gctcacaatt tccaccagc tgctaactta ccttacatca 180
cctctaagaa aatcagccta gagagccctc ttgaagatgg ctttctaata tgaaatgaaa 240
agggcaaggc acgtaaaagg cagcccaaca tcagtgaagg cctgggccta ttctggaaaa 300

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gctaacaaag cgctgtctaa agtgaacact cgtaaatac ccgcagggtga tttacagggt 360  
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 ccattcctga atatatgcat gagagaaatt gtgtgtcaat gcacaagatg gccatgtgca 480  
 tacaaattac agagacatga aggtcacttc tgtgattttt attttagatg ttctttaaga 540  
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<210> 1301

<211> 597

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI237698

<400> 1301

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 ctgcataata caaacaagga acagatgttc tgtaaaaaa gactgctgtg aactattctt 180  
 aagactttta aaggtcttca tgactttaca gacatcttca cacacctttt ggtcctcaca 240  
 acaaccctgt gaggtaggaa ttaacatgat cattagcaga gcataaaata ggaaaatgag 300  
 atataccag gcatacaatt agtaatctgc tactatctta gtgttggtga ccttaggggt 360  
 tgtgttaag cacaaagcat gaagtcctgt aaaatatgct ctgtttattc ccagagaggt 420  
 aacaacatgg gatattgaat ctttattatt actgcatttt attatcattc tcttggtatg 480  
 aattttcttc tttattataa cttatacaaa atatctccat ttctactgca atattttattt 540  
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<210> 1302

<211> 592

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI237713

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 gcatcagtag aaaaaatcta agcagagaca gtagattagt aattagagca tcatgtagcg 180  
 ttggttttag gaagaagcgt cacaggtaaa agaaggagca tatgacataa actcaaact 240  
 gcaattcaaa tttacaaatt ataaaaattc accgctttta tagctgggtt cttttgaatg 300  
 gctaaatttt agcctcattt ttttttcaat taaatgcctg ttaacaaaacc aattggacaa 360  
 actcattttac ccaaattttac atcctagaat atgtaagtaa actgaagaca ttattcagat 420  
 gaataagttc tattcatttt catcatctct gtgatcagggt tgcaaaggac atgctttttc 480  
 ctttgctttt cctaagccac tgcttctctg ttcttcagga atctgggttt cttttttaga 540  
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<210> 1303

<211> 563

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI237855

<400> 1303

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ccaaaagggg cttagataa caagatacaa ctcttttattc aaaactctca aaatggggaa 180
tgataaagaa caggacaacc acactgatgt catctttgtt cttctacatg atattctctt 240
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caggttctct gtgagatact ttgtgaaaat actctcccat ggtggacatg atcaatggca 360
ggttttatat aacaactcaa gagtccccca gaagttaaac ccaggaaatg ttggaccatg 420
gaaagagatt gaaaggagaa cttttaatta tgagaaaagg atccagtaag aatacactta 480
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<210> 1304

<211> 493

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI638994

<400> 1304

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acactatata tacagcatgt ccaaattattc acaccactgc aaaataagga cgttttatatt 180
ttcacattaa cgtcaattat aaaattctga tgtgcccttt gaaactcagt caacaagtca 240
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tttgagtctt catatttcaa aatacacaaat gcaatcatca taacgggctc catgatctgt 420
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<210> 1305

<211> 399

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI638998

<400> 1305

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<210> 1306

<211> 448

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI639029

<220>

<221> unsure

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 atccagacag aggtttctcc tttggcaggg cctgcctcag agccagggtcc catttgctgc 360  
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<210> 1307

<211> 392

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI639042

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 acaagttcaa acattttctac atacaacatt tttagggttt catttaccaa aaacaaaata 180  
 gtacaagttt tgctgcctcg atatatacat caaaataaat acttttaatt gtggaaaata 240  
 gaaatcaaat ttcttaacat tataacaaca aatagtttac cctgaatttg tagtatcttt 300  
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<210> 1308

<211> 388

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI639055

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 cccatccggt tttaaaaaac atttttttac caaaaccgtg gaattgaaca aaaaaagggg 300  
 aatggggccc atttcccaaa atttcacaaa aaaaagggac cggggaaccc ggggttttat 360  
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<210> 1309

<211> 533

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI639101

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 ccttcattca gtatgtgat ttacattctt ggtggttcaa ggggagtaga gatacactta 180  
 gaaccataag cagctcacag cagacatttt aggcactgga gacttgggtc gaggttagaa 240  
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cgtcagacac ccgcggaactc ggcattgtatc tatctgtatt cacatgcaca cactccttca 360  
 cagatacata cacacatatc agagctaaaa tatttgctgg gcagtgggtg tgtgtgcctt 420  
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<210> 1310

<211> 413

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI639108

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 tcaaacacaa gaaggaagca gaaagggggg gtgaggagaa agcagtgttt gatatttcct 180  
 acacacacat gtcaacattc accgttctta gaccactgag tcaggtctctg acatccttct 240  
 gagcctcaca agggaatggg tttgccattc ccatgaggcc atgcaactgag gtactaaaca 300  
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<210> 1311

<211> 411

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI639151

<400> 1311

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 ttaaaaaaga tgacaaagga tgtaaatctt tttttattat tatcattttt acatattttg 180  
 gaacctcaca taattttgat aaataactct taaaaatta tgcaaaaagt acaagaatgt 240  
 ctggtaaaca aacagtctgt attttccaaa aagaattttt acaacatgca attcttaagg 300  
 cagcatcctc tttacaagg aatcctttta ctcatcaaat cttctgctgc aaagaatagg 360  
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<210> 1312

<211> 447

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI639158

<400> 1312

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 ccgagacaac agtgaagcct gacagaagg accctccacc tccactcatc aacaatttgg 240  
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<212> DNA

<213> Rattus norvegicus

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<213> Rattus norvegicus

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<223> Genbank Accession No. D12770

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<213> Rattus norvegicus

<220>

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<223> Genbank Accession No. D16478

<400> 1331

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<213> Rattus norvegicus

<220>

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<213> Rattus norvegicus

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<220>  
<223> Genbank Accession No. D30666

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<213> Rattus norvegicus

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<223> Genbank Accession No. D38061

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<211> 858

<212> DNA

<213> Rattus norvegicus

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<400> 1337

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<210> 1338

<211> 1987

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. D38381

<400> 1338

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<213> Rattus norvegicus

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<223> Genbank Accession No. D42148

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<212> DNA

<213> Rattus norvegicus

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<223> Genbank Accession No. D50695

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<211> 610

<212> DNA

<213> Rattus norvegicus

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<211> 2091

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. D63704

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<213> Rattus norvegicus

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<213> Rattus norvegicus

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<223> Genbank Accession No. D85435

<400> 1345

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<213> *Rattus norvegicus*

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<213> Rattus norvegicus

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<223> Genbank Accession No. D88666

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<213> Rattus norvegicus

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<212> DNA

<213> Rattus norvegicus

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<223> Genbank Accession No. E01524

<400> 1351

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<212> DNA

<213> Rattus norvegicus

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<223> Genbank Accession No. E02315

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<212> DNA

<213> Rattus norvegicus

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 gaaggtccca acctgattat caaacagccg gatgagttgc tggacagcat gtcagattgg 180  
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<210> 1358  
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<220>  
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<220>  
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 <212> DNA  
 <213> Rattus norvegicus

<220>  
 <223> Genbank Accession No. H32584

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 ggcttttctg ttttgttggg gtgagagccc tagctcccag ctccccctcac actacctttt 180  
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<210> 1360  
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 <212> DNA  
 <213> Rattus norvegicus

<220>  
 <223> Genbank Accession No. H32867

<220>  
 <221> unsure  
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 gcagccaggc gatgacgtgg tctccaatta cttcaccaaa ggcaagcgaa ggcaagcgct 360



taggcacccct ggttggttttc tccttcatca aagaggccat cctacccagt cggcagaaga 420  
tatactgacc ctttggg 437

<210> 1361  
<211> 396  
<212> DNA  
<213> Rattus norvegicus

<220>  
<223> Genbank Accession No. H32977

<220>  
<221> unsure  
<222> (1) .. (396)  
<223> n = a or c or g or t

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gcatagctgt ggtatcacca tgctcgtct ccccggtcccc aaggatggca ggacagggac 180  
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gcactttaca atgganccca agagagcctg ctttctctga gaagacagga tgtctgtaca 360  
aactctcatc aggttttttc cacttcagaa cccaag 396

<210> 1362  
<211> 381  
<212> DNA  
<213> Rattus norvegicus

<220>  
<223> Genbank Accession No. H33219

<220>  
<221> unsure  
<222> (1) .. (381)  
<223> n = a or c or g or t

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cagcctaaac catagcaatc taggattatg tcattttaca ctgtgcaaaa tctcaaaaaa 240  
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<210> 1363  
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<212> DNA  
<213> Rattus norvegicus

<220>  
<223> Genbank Accession No. H33426

<220>  
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<223> n = a or c or g or t

<400> 1363

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gg 422
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<210> 1364

<211> 569

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. H33491

<220>

<221> unsure

<222> (1) .. (569)

<223> n = a or c or g or t

<400> 1364

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gataacgaag taggaaccag aaataaaggg ggtgacctag ctctccatgc tgggaatccat 420
cgcgaggttc ggtcaggaag tacagcacat ccccatatat ctggcccaca gacaccacaa 480
gctgtaggac aaagcgggaag gggttgatga cggagaaagg cgatcaccac ccataggctn 540
agtgggtccc cagagacaaag ctgtgacaa 569
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<210> 1365

<211> 299

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. H33832

<220>

<221> unsure

<222> (1) .. (299)

<223> n = a or c or g or t

<400> 1365

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ttggtggaga gttccaccct gggcttcttc gtgctcaacg gctacaagtt ccagcnggcn 240
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<210> 1366

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<221> unsure
<222> (1)..(335)
<223> n = a or c or g or t
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<210> 1367
<211> 294
<212> DNA
<213> Rattus norvegicus
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<220>  
<221> unsure  
<222> (1) .. (294)  
<223> n = a or c or g or t
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<210> 1368
<211> 419
<212> DNA
<213> Rattus norvegicus
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<220>
<221> unsure
<222> (1)..(419)
<223> n = a or c or g or t
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496

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ttttttnttc actgaagagg tcattcctct gggaagttca ggagtgcact cagcactgt 419

<210> 1369

<211> 405

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. H34687

<220>

<221> unsure

<222> (1) .. (405)

<223> n = a or c or g or t

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tggaacattc tctatgacaa gttagagaag gttcatcagt ctggagccaa agtcatcttg 360  
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<210> 1370

<211> 684

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. J00728

<400> 1370

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atttcatgag tacacatctc atgctgagtc acttccctct tcctcctaag agcccacgtc 480  
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gtgagcttcg gtgtgtttgt cctttacttc acataatatt atctaggttc ctgtgttcta 660  
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<210> 1371

<211> 950

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. J00735

<400> 1371

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<210> 1374

<211> 573

<212> DNA

<213> Rattus norvegicus

 $\langle 220 \rangle$ 

<223> Genbank Accession No. J03627

<400> 1374

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<210> 1375

<211> 1444

<212>. DNA

<213> Rattus\_norvegicus

 $\langle 220 \rangle$ 

<223> Genbank Accession No. J03863

<400> 1375

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<210> 1376

<211> 5224

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. J03914

<400> 1376

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<213> Rattus norvegicus

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<223> Genbank Accession No. J04943

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<400> 1378

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<213> Rattus norvegicus

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<212> DNA

<213> Rattus norvegicus

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<223> Genbank Accession No. K02814

<400> 1382

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Figure 1 displays a vertical sequence of 12 micrographs illustrating the early stages of chick embryo development. The stages are labeled on the right side of each image: 1. Fertilized egg, 2. 2-cell stage, 3. 4-cell stage, 4. 8-cell stage, 5. Morula stage, 6. Gastrula stage, 7. Head fold stage, 8. Somite stage, 9. Eye stage, 10. Heart stage, 11. Hatching stage, and 12. Hatched chick. The images show the progression from a single cell to a fully formed chick ready to hatch from its shell.

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<211> 2146

<212> DNA

<213> Rattus norvegicus

**<220>**

<223> Genbank Accession No. L07073

<400> 1384

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<212> DNA

<213> Rattus norvegicus

<220>

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<213> Rattus norvegicus

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<211> 3115

<212> DNA

<213> Rattus norvegicus

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<223> Genbank Accession No. L16995

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<400> 1391

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<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. L24207

<400> 1392

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<210> 1393

<211> 2643

<212> DNA

0947800-073101

Figure 1 consists of 12 subplots, each representing a different value of  $k$  from 1 to 12. Each subplot is a histogram showing the frequency of the number of non-zero elements in the rows of the matrix  $A_k$ . The x-axis for all plots is labeled 'Number of non-zero elements' and ranges from 0 to 100. The y-axis is labeled 'Frequency' and ranges from 0 to 10. The distributions are roughly bell-shaped and centered around 40-50 non-zero elements. The plots are arranged in a 6x2 grid. The first row contains plots for  $k=1$  to  $k=6$ , and the second row contains plots for  $k=7$  to  $k=12$ . The plots show that as  $k$  increases, the distribution of non-zero elements remains relatively stable, with a slight shift towards higher frequencies.

<223> Genbank Accession No. L25387

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<213> Rattus norvegicus

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<223> Genbank Accession No. L26292

<400> 1394

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<211> 2638

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. L27843

<400> 1395

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<212> DNA

<213> Rattus norvegicus

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<223> Genbank Accession No. L36460

<400> 1396

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<212> DNA

<213> Rattus norvegicus

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<223> Genbank Accession No. M10068

<400> 1397

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<212> DNA

<213> *Rattus norvegicus*

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<223> Genbank Accession No. M11251

<400> 1398

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<211> 8351

<212> DNA

<213> *Rattus norvegicus*

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<223> Genbank Accession No. M11794

<400> 1399

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<213> Rattus norvegicus

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<223> Genbank Accession No. M12112

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<212> DNA

<213> Rattus norvegicus

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<213> Rattus norvegicus

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<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. M13506

<400> 1403

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<211> 2639

<212> DNA

<213> *Rattus norvegicus*

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<223> Genbank Accession No. M14369

<400> 1404

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<211> 2719

<212> DNA

<213> Rattus norvegicus

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<223> Genbank Accession No. M15428

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<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. M15562

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<213> Rattus norvegicus

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<400> 1407

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<210> 1408

<211> 1161

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. M18527

<400> 1408

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<211> 1161

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. M18528

<400> 1409

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<210> 1410

<211> 1159

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. M18529

<400> 1410

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<211> 1161

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. M18531

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<210> 1412

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<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. M23995

<400> 1412

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**09-1800-073**

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<220>  
<223> Genbank Accession No. M31178

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<212> DNA

<213> Rattus norvegicus

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<211> 1020

<212> DNA

<213> Rattus norvegicus

<220>

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<211> 562

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. M36151

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<210> 1418

<211> 2975

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. M38759

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<213> Rattus norvegicus

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<211> 857

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. M83678

<400> 1426

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<212> DNA

<213> Rattus norvegicus

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<223> Genbank Accession No. M86235

<400> 1427

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<211> 787

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. M86389

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<212> DNA

<213> Rattus norvegicus

<220>

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<211> 1329

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. M98820

<400> 1430

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 <213> Rattus norvegicus

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 <212> DNA  
 <213> Rattus norvegicus

<220>  
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<213> Rattus norvegicus

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<223> Genbank Accession No. S71021

<400> 1436

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<211> 1052

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. S72505

<400> 1437

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<210> 1438

<211> 1129

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. S72506

<400> 1438

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<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. S76054

<400> 1439

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 <213> Rattus norvegicus

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<211> 2533

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. U01344

<400> 1442

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<213> Rattus norvegicus

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<210> 1444

<211> 1089

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. U03390

<400> 1444

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<210> 1445

<211> 1318

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. U04808

<400> 1445

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<210> 1446

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<213> Rat

<220>

<400> 1446

<210> 1447

<212> DNA

<213> Rattus norvegicus

**<220>**

<400> 1447

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<210> 1448

<211> 2226

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. U07201

<400> 1448

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<210> 1449

<211> 2207

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. U10357

<400> 1449

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<210> 1450

<211> 1885

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. U10697

<400> 1450

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<210> 1451

<211> 1133

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. U17035

<400> 1451

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<210> 1454

<211> 3628

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. U20796

<400> 1454

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<213> *Rattus norvegicus*

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<212> DNA

<213> Rattus norvegicus

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<210> 1462

<211> 1782

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. U39208

<400> 1462

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<210> 1463

<211> 2746

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. U48220

<400> 1463

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<210> 1464

<211> 1384

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. U49694

<400> 1464

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<210> 1465

<211> 1511

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. U55765

<400> 1465

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<210> 1466

<211> 1451

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. U58466

<400> 1466

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<210> 1467

<211> 432

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. U59184

<400> 1467

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<210> 1468

<211> 1201

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. U60882

<400> 1468

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<211> 2196

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. U63923

<400> 1469

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<211> 339

<212> DNA  
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<220>  
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<220>  
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<211> 1765

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. U68168

<400> 1472

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<211> 1051

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. U72632

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<223> n = a or c or g or t

<400> 1473

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<211> 1428

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. U73174

<400> 1474

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<211> 178

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. U75404

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<210> 1476

<211> 187

<212> DNA

<213> Rattus norvegicus

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<223> Genbank Accession No. U75405

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<223> n = a or c or g or t

<400> 1476

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<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. U75916

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 <223> n = a or c or g or t

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<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. U88036

<400> 1481

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<211> 1360

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. U94708

<400> 1482

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<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. U95001

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<212> DNA

<213> Rattus norvegicus

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<211> 735

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. X02904

<400> 1485

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<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. X03369

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<212> DNA

<213> Rattus norvegicus

**<220>**

<223> Genbank Accession No. X05566

<400> 1487

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<211> 696

<212> DNA

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<213> Rattus norvegicus

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<223> Genbank Accession No. X12459

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<211> 1422

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. X13016

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<210> 1491

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<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. X13058

<400> 1491

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<211> 3037

<212> DNA

<213> Rattus norvegicus

<220>

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<211> 591

<212> DNA

<213> Rattus norvegicus

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<223> Genbank Accession No. X14181

<400> 1493

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<212> DNA

<213> Rattus norvegicus

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<211> 3330

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. X51529

<400> 1495

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<210> 1496

<211> 2376

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. X51615

<400> 1496

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<210> 1497

<211> 664

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. X53504

<400> 1497

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<210> 1498

<211> 2812

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. X55153

<400> 1498

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<210> 1499

<211> 2234

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. X55298

<400> 1499

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<210> 1500

<211> 2674

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. X57523

<220>

<221> unsure

<222> (1) .. (2665)

<223> n = a or c or g or t

<400> 1500

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 <213> Rattus norvegicus

<220>  
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<220>  
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843

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 <213> Rattus norvegicus

<220>  
 <223> Genbank Accession No. X62166

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 <212> DNA  
 <213> Rattus norvegicus

<220>  
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<210> 1511

<211> 2141

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. X65296

<400> 1511

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2141

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<211> 2036

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. X73411

<400> 1512

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<211> 2277

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. X74593

<400> 1513

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<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. X78327

<400> 1514

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 <213> Rattus norvegicus

<220>  
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<210> 1520

<211> 1852

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. X94769

<400> 1520

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<210> 1521

<211> 1780

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. X97772

<400> 1521

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<210> 1522

<211> 1632

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. X98517

<400> 1522

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<210> 1523

<211> 1662

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. Y08355

<400> 1523

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<210> 1524

<211> 1711

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. Y09333

<400> 1524

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<210> 1525

<211> 1614

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. Y12635

<400> 1525

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<211> 1634

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. Z48225

<400> 1528

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<212> DNA

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<213> *Rattus norvegicus*

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<212> DNA

<213> Rattus norvegicus

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<210> 1545

<211> 1937

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. NM\_012571

<400> 1545

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<210> 1546

<211> 6322

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. NM\_012576

<220>

<221> unsure

<222> (1)..(6322)

<223> n = a or c or g or t

<400> 1546

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<210> 1547

<211> 870

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. NM\_012580

<400> 1547

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<210> 1548

<211> 2352

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. NM\_012588

<400> 1548

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<210> 1549

<211> 1605

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. NM\_012597

<400> 1549

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<210> 1551  
 <211> 2168  
 <212> DNA  
 <213> *Rattus norvegicus*

<220>  
 <223> Genbank Accession No. NM\_012603

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<210> 1552  
 <211> 2442  
 <212> DNA  
 <213> *Rattus norvegicus*

<220>  
 <223> Genbank Accession No. NM\_012615

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<213> Rattus norvegicus

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<223> Genbank Accession No. NM\_012637

<400> 1555

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<400> 1556

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<212> DNA

<213> Rattus norvegicus

<220>

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<211> 2259

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. NM\_012693

<400> 1561

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<210> 1562

<211> 1936

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. NM\_012699

<400> 1562

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<210> 1563

<211> 3320

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. NM\_012716

<400> 1563

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<210> 1564

<211> 2583

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. NM\_012725

<400> 1564

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<210> 1565

<211> 5588

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. NM\_012726

<220>

<221> unsure

<222> (1) .. (5588)

<223> n = a or c or g or t

<400> 1565

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<210> 1566

<211> 3945

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. NM\_012744

<400> 1566

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<210> 1567

<211> 2142

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. NM\_012749

<400> 1567

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<210> 1568

<211> 1843

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. NM\_012766

<400> 1568

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<210> 1569

<211> 2335

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. NM\_012770

<400> 1569

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<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. NM\_012789

<400> 1570

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<211> 924

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. NM\_012793

<400> 1572

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<211> 1258

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. NM\_012796

<400> 1573

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<210> 1574

<211> 1124

<212> DNA

<213> Rattus norvegicus

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<223> Genbank Accession No. NM\_012797

<400> 1574

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<210> 1575

<211> 1543

<212> DNA

<213> Rattus norvegicus

<220>

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<211> 1504

<212> DNA

<213> Rattus norvegicus

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<220>  
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<213> Rattus norvegicus

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<213> *Rattus norvegicus*

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<223> Genbank Accession No. NM\_012887

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2747

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<213> *Rattus norvegicus*

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<212> DNA

<213> Rattus norvegicus

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<223> Genbank Accession No. NM\_012967

<400> 1590

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<211> 1545

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. NM\_012977

<400> 1591

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<210> 1592

<211> 2460

<212> DNA

<213> Rattus norvegicus

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<223> Genbank Accession No. NM\_012998

<400> 1592

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<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. NM\_012999

<400> 1593

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<211> 664

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. NM\_013027

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<210> 1595

<211> 1666

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. NM\_013043

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<210> 1596

<211> 1689

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. NM\_013052

<400> 1596

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<210> 1597

<211> 2415

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. NM\_013059

<400> 1597

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<210> 1599

<211> 2153

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. NM\_013082

<400> 1599

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<210> 1600

<211> 607

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. NM\_013086

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<210> 1601

<211> 2130

<212> DNA

<213> Rattus norvegicus

<220>

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 <213> *Rattus norvegicus*

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<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. NM\_013144

<400> 1608

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<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. NM\_013154

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<210> 1610

<211> 4409

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. NM\_013173

<400> 1610

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<213> Rattus norvegicus

<220>

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<400> 1611

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<210> 1612

<211> 2389

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. NM\_013198

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<210> 1614

<211> 1523

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<213> Rattus norvegicus

<220>

<223> Genbank Accession No. NM\_013214

<400> 1614

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<210> 1615

<211> 1272

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. NM\_013215

<400> 1615

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<210> 1616  
 <211> 1088  
 <212> DNA  
 <213> *Rattus norvegicus*

<220>  
 <223> Genbank Accession No. NM\_013216

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<210> 1617  
 <211> 1866  
 <212> DNA  
 <213> *Rattus norvegicus*

<220>  
 <223> Genbank Accession No. NM\_016986

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<210> 1618

<211> 4269

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. NM\_016987

<400> 1618

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<213> Rattus norvegicus

<220>

<223> Genbank Accession No. NM\_016989

<400> 1619

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<210> 1620

<211> 2108

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. NM\_016991

<400> 1620

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<210> 1621

<211> 1091

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. NM\_016995

<400> 1621

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<210> 1622

<211> 2462

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. NM\_016999

<400> 1622

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<210> 1623

<211> 2324

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. NM\_017006

<400> 1623

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<211> 1804

<212> DNA

<213> *Rattus norvegicus*

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<210> 1625  
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 <212> DNA  
 <213> Rattus norvegicus

<220>  
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<220>

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<400> 1626

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 <213> Rattus norvegicus

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<210> 1629

<211> 2793

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. NM\_017073

<400> 1629

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<211> 1743

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. NM\_017074

<400> 1630

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<211> 1715

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. NM\_017075

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<211> 2171

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. NM\_017076

<400> 1632

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gtccttttcc ctctcttctc tcaatccatt ttcgtcttct ttttcttccc agacactatt 2100
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<210> 1633

<211> 988

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. NM\_017084

<400> 1633

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cagccgtact gcagagtaca aggcgtggtt gcttgggctg ctgcgccagc acgggtgcca 180
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ggactacaca gtgcagggtc caggtgtgtg gagatgggc gctcctggct tcagtaagtt 720
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<210> 1634

<211> 693

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. NM\_017096

<400> 1634

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ctggaagcag agtcaaagaa gccactggaa gccttctact tgtgtctcta tgcccacgct 180
gatgtgagcc gaagcttcag catcttctct tacgctacca agacgagctt taacgagatt 240

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cttctgtttt ggactagggg tcaaggggtt agtattgcag taggtggggc tgaaatactg 300
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acaggaattg tagagctttg gcttgacggg aaaccagggg tgcggaaaag tctgcagaag 420
ggctacattg tggggacaaa tgcaagcatc atcttggggc aggagcagga ctcgtatggc 480
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tttgtgctat ctccagaaca gatcaatgca gtctatgttg gtaggggtatt cagccccaat 600
gttttgaact ggcgggcact gaagtatgaa acacacgggt atgtgtttat caagccgcag 660
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<210> 1635

<211> 838

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. NM\_017126

<400> 1635

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tcgtgggtctg gactgccgtc ggctgctggg ctgcgggacc cgtgcgggac ctgccgtccc 180
tcagtggacc ccgagccccc acacgcttgc agaggccgga cctggccggc cactgagcgt 240
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tggtgaaacg ctaacgacca aggggaaagt tggtgactct ctgctagatg ttgtgattga 360
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tcatcttata tttgaggacc atatatatga gaagttagat gccattactg atgaagagaa 480
cgacatgctt gacctggctt ttggactaac aaacagggtca cggctgggct gtcaagtttg 540
tctgaccaag gctatggaca atatgactgt ccgtgtgcct gaagcagtgg cagatgtccg 600
acagtctgtt gacatgagca agaattccta agctacaata aaaagaatat ttctattaaa 660
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<210> 1636

<211> 2540

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. NM\_017127

<400> 1636

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cacaaccgcc gccccgccgg tcagtgaagc cggtagacca ttccccgcgc cggccccag 180
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ccgcttgggc tgctgctgag ctgcggtggc agcgtgccc cgacgcccgg cgtagggcag 360
cagcgcgatg ccgcaggcga gctggagtcc aagcagcttg gtggccggtc ccaacctctc 420
gcgctgccgc cgccaccacc gccgccctg ccgctgcccc cgccgccatc accgccgcta 480
gcggacgaac aacccgagcc ccggacgcgg cgcaggccct acctgtggtg caaggaattc 540
ctgcccggag cctggagggg ccttcgcgag gaccagttcc acatcagtgt catcaggggt 600
ggtctcagta acatgctgtt ccagtgttcc ttgccagact ccatagccag tgttgggtgat 660
gaacctcgga aagtgtctct gcgactgtat ggggcaatct taaagatggg ggctgaagca 720
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ggtatgaaaa tgccattcaa taaggaaacca aaatggcttt ttggaacaat ggaaaaatac 960

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ctgaatcaag tactaagact taaattcagc agggaggcca gagttcaaca actgcacaag 1020
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<210> 1637

<211> 1039

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. NM\_017147

<400> 1637

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gcctgagtga ggacaagaag aacatcatcc tggaggaggg caaggagatt ctggtaggag 180
atgtggggca gactgtggac gaccctaca ccacttttgt caagatgctg ccagacaagg 240
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tggtattcat tttctggggc cccgagagtg cacccttaa gagcaaaatg atctatgcca 360
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<210> 1638

<211> 801

<212> DNA  
 <213> Rattus norvegicus  
 <220>  
 <223> Genbank Accession No. NM\_017160

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 gtagctgctg atgctcttgg tgaagagtgg aagggttatg tggtcgggat cagcgggtggg 180  
 aatgacaaac aaggttttcc catgaagcaa ggcgttttga cccatggcag agtgcgcttg 240  
 cttttgagta aggggcattc ttgttataga cctaggagaa ctggagagag gaagcgcaag 300  
 tctgtccgag gatgcattgt ggatgccaac ctgagtgttc tcaacttggg tattgtaaaa 360  
 aaaggagaga aggatattcc aggactgaca gataccactg tgcctcgtcg gttgggacct 420  
 aaaagagcta gtagaatccg aaagcttttt aatctctcca aagaagatga tgtccgccag 480  
 tatgtttgta gaaagccctt aaacaaagaa ggtaagaagc ccaggaccaaa agcgcccaag 540  
 attcagcgtc ttgttactcc ccgtgtcctg caacacaaac gccgacgtat tgctctgaag 600  
 aagcaacgca ctaagaaaaa caaggaggag gctgcagaat atgctaaact tttggccaag 660  
 agaatgaagg aagccaaaga gaagcgccag gaacagattg ccaagagacg taggctgtct 720  
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 caaataaata atgagacctt g 801

<210> 1639  
 <211> 1679  
 <212> DNA  
 <213> Rattus norvegicus

<220>  
 <223> Genbank Accession No. NM\_017177

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 tggagtctcg aagaaagccg gagacagtcg cgaagaacgg aggacgcccag gagactcttc 180  
 ggcttcccgg aagtggaacc gagcataccc ggaaggagct aatcccacct gaagattgct 240  
 gagcaccgag aggcgttaag cctaaccggag tccacgtcat ggcggcggat gggacagggtg 300  
 tagtcggagg aggggctgtc ggcggccccc tgtccaagga cggtttgctg gatgctaagt 360  
 gcccagaacc aatccccaat cggcggcgct ctctctcgct gtcccgtgac gcgcagcgcc 420  
 gagcctatca ttggtgcccgg gactacctgg gcggagcctg gcgcagagcg cggccggagg 480  
 agctgagcgt ttgccccgtg agcggaggcc tcagcaacct gctcttccga tgctcgctac 540  
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 ctatcttgca ggggtgtagac tccttggtat tagaaagcgt gatgttcgcc attcttgtag 660  
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 tcccaagccg gccattgaaa actcaagagc tccgggaccc agtggtgtca ggagccattg 780  
 caacaaagat ggcccgtttc catggtatgg agatgccctt caccaaggag ccccgctggg 840  
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 cggggcaggg cctcggaggg aggggcaaag agcagaagcc cccagagctt gggctgtgcc 1560  
 tctaagttag actgtcgttg aagtagctga cctccgtact cttttcttag tacttgccca 1620

aggggggcat ctgacagccc ctggggctgt gcacctaaat aaatgaactt cacaaatac 1679

<210> 1640

<211> 1386

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. NM\_017181

<400> 1640

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aaaaaa 1386

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<210> 1641

<211> 1072

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. NM\_017187

<400> 1641

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acgccttctt cgtgcagacc tgccgggagg agcacaagaa gaagcatccc gactcgctcg 180
tcaacttcgc cgagttctcg aagaaatgtt cggagagatg gaagaccatg tctgccaagg 240
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gtaaccgaaa aaaaaaaaaa aaaaaaaa 1828

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<210> 1644

<211> 2622

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. NM\_017208

<400> 1644

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tccagactcg gcggtcttcc cagaggcaaa cggctcccag cttccgtctg cagtcttttt 180
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<210> 1645

<211> 1176

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. NM\_017220

<400> 1645

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<210> 1646

<211> 2227

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. NM\_017224

<400> 1646

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<210> 1647

<211> 2519

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. NM\_017259

<400> 1647

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<210> 1648

<211> 2646

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. NM\_017274

<400> 1648

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<211> 1174

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. NM\_017278

<400> 1649

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<220>

<223> Genbank Accession No. NM\_017282

<400> 1652

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<211> 932

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. NM\_017283

<400> 1653

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<210> 1654

<211> 1490

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. NM\_017288

<400> 1654

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<210> 1655

<211> 1879

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. NM\_017300

<400> 1655

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acatgggggt ccaccccatg ggtcttttct ggtccatgaa acctgaaaag ctattgacta 480
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<210> 1656

<211> 796

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. NM\_017309

<400> 1656

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<210> 1657

<211> 2068

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. NM\_017327

<400> 1657

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<210> 1658

<211> 436

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. NM\_017334

<400> 1658

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gccacagggtg acatgccaac ttaccagatc cgagctccta ctactgcttt gccacaagg 180
gtgggtgatgg ctgcctcacc aggaagcctg cacagtcccc agcaactagc agaagaagca 240
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tagaaatatt taacta 436

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<210> 1659

<211> 722

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. NM\_019165

<400> 1659

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tattccagaa agacgattag tatacacgag ccttatgata acctactctg tattttctatg 660  
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<210> 1660

<211> 1018

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. NM\_019170

<400> 1660

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<210> 1661

<211> 1856

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. NM\_019184

<400> 1661

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<210> 1662

<211> 1192

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. NM\_019190

<400> 1662

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<210> 1663

<211> 2794

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. NM\_019192

<400> 1663

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<210> 1668

<211> 1547

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. NM\_019237

<400> 1668

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<210> 1669

<211> 1662

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. NM\_019238

<400> 1669

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<210> 1670

<211> 1736

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. NM\_019242

<400> 1670

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<210> 1672  
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 <212> DNA  
 <213> *Rattus norvegicus*

<220>  
 <223> Genbank Accession No. NM\_019283

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<210> 1673  
 <211> 1430  
 <212> DNA  
 <213> *Rattus norvegicus*

<220>  
 <223> Genbank Accession No. NM\_019289

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 gcccccgaga gtaaccgat tgtgacctgc ggcacagacc gcaatgccta tgtgtggacg 240  
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<210> 1674

<211> 1259

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. NM\_019290

<400> 1674

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<210> 1675

<211> 1459

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. NM\_019291

<400> 1675

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<210> 1676

<211> 988

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. NM\_019292

<400> 1676

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<210> 1677

<211> 1201

<212> DNA

<213> Rattus norvegicus



<220>

<223> Genbank Accession No. NM\_019293

<400> 1677

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<210> 1678

<211> 1768

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. NM\_019303

<220>

<221> unsure

<222> (1) .. (1759)

<223> n = a or c or g or t

<400> 1678

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ctcccaatcc taggaaacct gctgcagctt cgctcccaag acttgctgac ctactcacc 180
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<210> 1679

<211> 1575

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. NM\_019354

<400> 1679

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<210> 1680

<211> 1377

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. NM\_019356

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<210> 1681

<211> 1932

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. NM\_019359

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cagcataaac tt 1932
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<210> 1682

<211> 1395

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. NM\_019905

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<210> 1683

<211> 546

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. NM\_020082

<220>

<221> unsure

<222> (1) .. (546)

<223> n = a or c or g or t

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<210> 1684

<211> 4540

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. NM\_021266

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<210> 1685

<211> 1574

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. NM\_021577

<400> 1685

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<210> 1686

<211> 1733

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. NM\_021593

<400> 1686

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<210> 1687  
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 <213> *Rattus norvegicus*

<220>  
 <223> Genbank Accession No. NM\_021653

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<210> 1688  
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 <212> DNA  
 <213> *Rattus norvegicus*

<220>  
 <223> Genbank Accession No. NM\_021750

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<210> 1689

<211> 1980

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. NM\_021754

<400> 1689

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<210> 1690

<211> 1545

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. NM\_021757

<400> 1690

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<210> 1693

<211> 537

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. NM\_022194

<400> 1693

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<210> 1694

<211> 1323

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. NM\_022220

<400> 1694

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<400> 1695

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<213> Rattus norvegicus

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<223> Genbank Accession No. NM\_022294

<400> 1697

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<213> Rattus norvegicus

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<210> 1699

<211> 1617

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. NM\_022298

<400> 1699

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<210> 1700

<211> 651

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. NM\_022284

<400> 1700

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<210> 1701

<211> 940

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. NM\_021909

<400> 1701

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<210> 1702

<211> 2410

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. NM\_022392

<400> 1702

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<210> 1703

<211> 1243

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. NM\_022509

<400> 1703

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<210> 1704

<211> 2183

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. NM\_022542

<400> 1704

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<210> 1705

<211> 3719

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. NM\_022543

<400> 1705

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<213> Rattus norvegicus

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<213> Rattus norvegicus

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<223> Genbank Accession No. NM\_022592

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<211> 2748

<212> DNA

<213> Rattus norvegicus

<220>

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 <213> *Rattus norvegicus*  
  
 <220>  
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<211> 3239

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. NM\_022866

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<210> 1714

<211> 861

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. NM\_022867

<400> 1714

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<211> 1992

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. NM\_022936

<400> 1716

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<211> 1408

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. NM\_024125

<400> 1719

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<211> 711

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. NM\_024127

<400> 1720

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<211> 806

<212> DNA

<213> Rattus norvegicus

<220>

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<210> 1723

<211> 1213

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. NM\_024148

<400> 1723

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 <213> *Rattus norvegicus*  
  
 <220>  
 <223> Genbank Accession No. NM\_024152

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<210> 1725  
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 <213> *Rattus norvegicus*

<220>  
 <223> Genbank Accession No. NM\_024159

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<212> DNA

<213> Rattus norvegicus

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<223> Genbank Accession No. NM\_024163

<400> 1726

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<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. NM\_017010

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<212> DNA

<213> Rattus norvegicus

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<400> 1729

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<210> 1730

<211> 1506

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. NM\_017272

<400> 1730

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